

1958

CENSUS OF MINERAL INDUSTRIES

VOLUME I

SUMMARY AND INDUSTRY STATISTICS



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# UNITED STATES CENSUS OF MINERAL INDUSTRIES: 1958

**VOL. I**

## **SUMMARY AND INDUSTRY STATISTICS**

**Employment, Payroll, Capital Expenditures,  
Value Added, Energy Used, and Related  
Statistics by Industry; Quantity and  
Value of Individual Supplies and Products**

Prepared under the supervision of  
**MAXWELL R. CONKLIN**  
Chief, Industry Division



**U.S. DEPARTMENT OF COMMERCE**  
Luther H. Hodges, Secretary

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This volume comprises the Summary and Industry Reports, Series MIC58(1), of the 1958 Census of Mineral Industries.

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# PREFACE

This is one of two volumes presenting final results of the 1958 Census of Mineral Industries. As for earlier censuses, the 1958 census was a large-scale undertaking which depended upon significant contributions from numerous public and private organizations and individuals. Basic to the census was the excellent cooperation of nearly 35,000 mining companies in completing the appropriate report forms. Also important to the conduct of the 1958 Census of Mineral Industries was the cooperation of the Bureau of Old-Age, Survivors, and Disability Insurance and the Internal Revenue Service in permitting use of certain records, thus making possible a material reduction in the cost of conducting the census.

The advice of trade associations, individual mining companies, the Bureau of Mines and other Government agencies, and research and marketing organizations was most valuable in determining the content of the reports and in developing techniques for minimizing the burden of reporting. Also noteworthy was the assistance of the Advisory Council on Federal Reports, which through special panels of industry experts advised on the feasibility of collecting various types of data. Timely publicity was given to the census by Chambers of Commerce, the National Association of Manufacturers and other business groups, trade papers, local newspapers, and television and radio stations.

The Bureau of Mines cooperated with the Bureau of the Census in conducting the 1958 Census of Mineral Industries. The Census Bureau is particularly indebted to the Bureau of Mines, Office of Chief Statistician and Office of Chief Economist for their staff work in planning and conducting the census. Very valuable assistance and cooperation was provided by the Chiefs, Divisions of Anthracite, Bituminous Coal, Minerals, and Petroleum; and the Divisions of Mineral Resources in the field offices.

The 1958 Census of Mineral Industries was conducted under the direction of Maxwell R. Conklin, Chief, and Owen C. Gretton, Assistant Chief, and Vivian Eberle Spencer, Chief of Minerals, of the Industry Division. Within the Industry Division this responsibility was shared along industry lines by the following individuals: William Cooper, Metal Mining; Wilhelmina F. Whiting, Coal Mining; C. H. Wallace Sedgewick, Oil and Gas Extraction; and George R. Hopkins, Nonmetallic Minerals, Except Fuels, Mining. The names of supporting statisticians in these commodity areas that made significant contributions are shown in the introductory portion of the 18 industry reports which were published separately prior to their assembly into the Summary and Industry Volume.

Within the staff areas of the Industry Division, Irving Rottenberg was responsible for the concepts and definitions of establishment-type data and for computer specifications for editing and tabulating the Minerals Census data. Jack J. Gottsegen developed the criteria for selecting commodity and material items in the output and input inquiries and for the standards for processing these data. Jack L. Ogus was responsible for the statistical methods and sampling used in the census. The application of the system of the industrial classification of establishments was coordinated by Irvin Strauss in the later stages of the census and by Isidore Bogdanoff during the earlier period. Staff coordination on various phases of the processing of the establishment-type statistics was the responsibility of Arthur W. Horowitz. The preparation of the final manuscript for printing was the responsibility of Angela R. Daly.

Processing of the reports was performed in the Economic Operations Division under the supervision of Irving Weiss, Assistant Chief, Processing, assisted by Max E. Van Horn, for the Washington operations, and Charles Merzel, Donald E. Young, Wesley R. Grier, and Bernard M. Kinney for operations in the Census Operations Office in Jeffersonville, Indiana. Systems and procedures were developed under the supervision of Sol Dolleck, Assistant Chief, Systems, assisted by Samuel Schweid, for Methods Evaluation and Determination; Jack Margolis, for Liaison and Systems Development; Nathan Lesowitz, aided by Carl Mueller, for development and preparation of procedures; and Jack Scharff, aided by Eugene L. Wendt, Mary H. Johnson, and Duryee Van Wagenen, for development and supervision of electronic computer programming. Quality control plans and procedures were developed and supervised by Herman H. Fasteau, assisted by George Minton, Alfred J. McKeon, and Ruth H. Mills. Scheduling, progress reporting, and related staff work were supervised by Wilbur J. Mathias and Margaret R. Rommel.

In the Data Processing Systems Division, Rudolph M. Micoly and James W. Shores supervised the scheduling and operation of electronic equipment; Edgar D. Morgan and William M. Gaines supervised equipment engineering and maintenance, and Mrs. Dorothy P. Armstrong supervised general-purpose computer programming activities, Joseph S. Pewterbaugh and Emil Gorgovits developed techniques and procedures relating to the machine tabulation phases; and Frank McGrath, assisted by Emma Gass, supervised the card punching.

Staff members in other divisions and offices of the Bureau also contributed to the various phases of the census. Robert Klove, Assistant Chief of the Geography Division, assisted by Robert P. Condon and Alford Archer, supervised the preparation of the maps and charts. Robert H. Brooks, Chief, Graphics Branch, Administrative Service Division, was responsible for the preparation of copy for reproduction. Sheldon M. Klein, Chief, and Ingrid L. Millison, of the Presentation Practices Branch, Statistical Reports Division, reviewed text material and table forms and assisted on publication problems. Harold T. Goldstein, of the Office of the Chief Economic Statistician, was responsible for the review of manufacturing industry coding manuals and for coordinating coding concepts with those followed in the Manufactures and Business Industries fields. Robert D. Krook, Executive Officer, Census Operations Office at Jeffersonville, Indiana, was responsible for the phases of the processing operations performed there.



# 1958 CENSUS OF MINERAL INDUSTRIES FINAL REPORT

## Volume I: SUMMARY AND INDUSTRY STATISTICS

### Summary Statistics

#### Chapter

- I. General Summary
- II. Size of Establishments
- III. Type of Organization

#### Chapter

- IV. Employment and Related Statistics
- V. Type of Operation
- VI. Fuels, Electric Energy, and Selected Supplies Used

Chapters I–VI were also issued as separate reports in Series MIC(1)

### Industry Statistics

Separate chapters for each of 14 industries or groups of industries. These chapters include for 55 individual industries, such statistics as number of establishments; quantity and value of shipments and receipts; capital expenditures; number of employees, man-hours, and payrolls; and cost of supplies, fuels, electric energy, contract work, and purchased machinery installed. Selected statistics are also shown by size of establishment, output

per man-hour, and ratio of payroll to value added in mining. These statistics are shown for the United States by States and types of operation. Historical comparisons are included. This volume also includes four major group summary chapters. (The industry and major group summary chapters were issued as separate reports in Series MIC58(1)–10A—MIC58(1)–14F.)

## Volume II: AREA STATISTICS

Chapters for each State, Alaska, and Hawaii. Each area chapter contains such statistics as number of establishments; quantity and value of shipments and receipts; capital expenditures; number of employees, man-hours, and payrolls; and cost of supplies; fuels, electric energy, contract work, and purchased machinery installed. These figures are shown by industry and by county, and for some industry groups within county. Number of

establishments is shown by size of operation, industry group, and county. Number of establishments, number of employees, and value added in mining is shown by type of operation. Historical comparisons are included. Nine division summary reports are also shown and a General Summary report is included. (The area chapters were issued as separate reports, Series MIC58(2)–1—MIC58(2)–49.)

## 1958 CENSUS OF MANUFACTURES FINAL REPORTS

Volume I: Summary Statistics  
Volume II: Industry Statistics

Volume III: Area Statistics

## 1958 CENSUS OF BUSINESS FINAL REPORTS

Volume I: Retail Trade—Summary Statistics  
Volume II: Retail Trade—Area Statistics  
Volume III: Wholesale Trade—Summary Statistics and Public Warehousing

Volume IV: Wholesale Trade—Area Statistics  
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Revisions of data previously published in the corresponding pages of Mineral Industries Summary and Industry Statistics Final Reports Series MIC58(1) are indicated by a symbol "r."

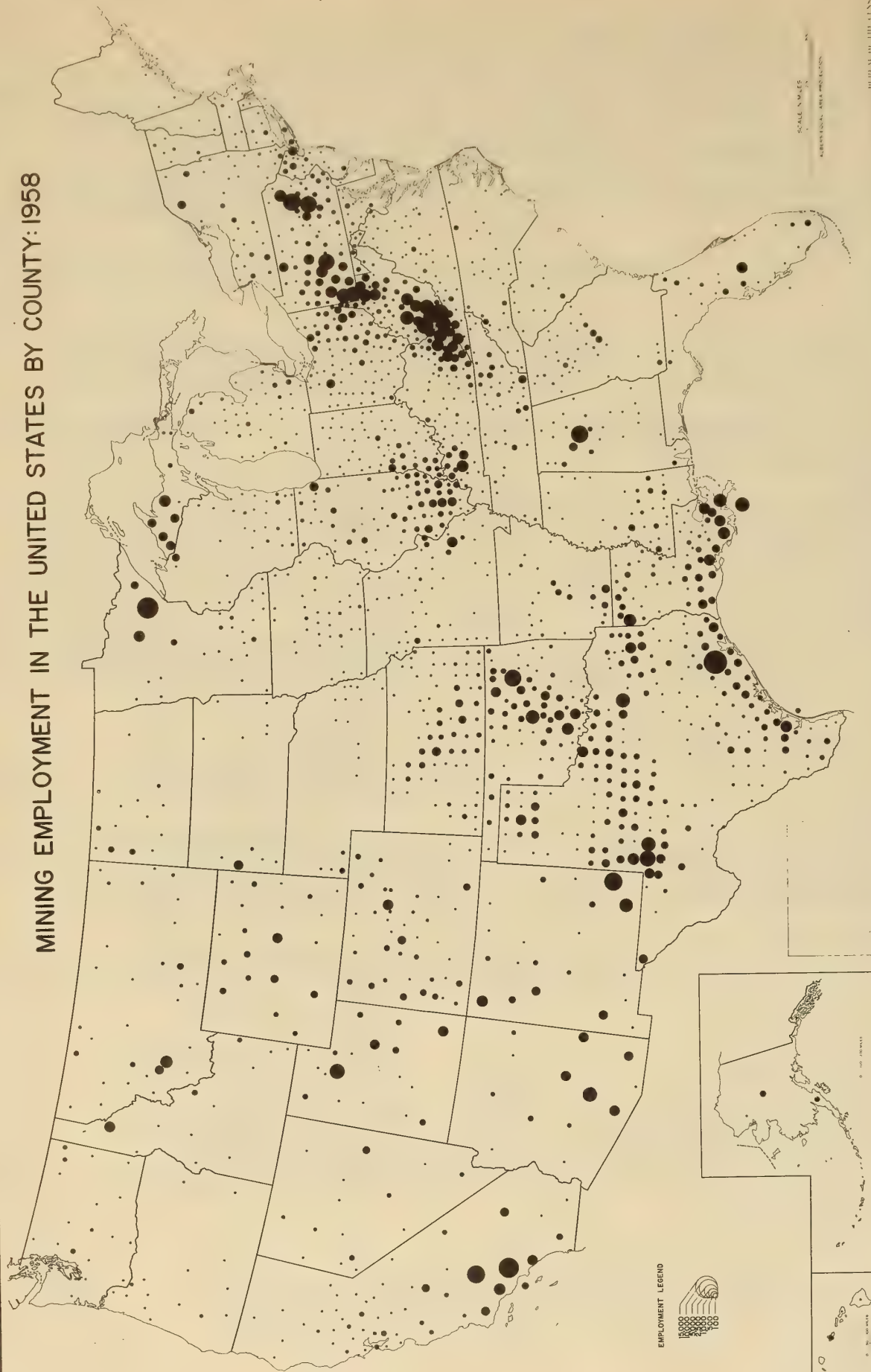


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# MINING EMPLOYMENT IN THE UNITED STATES BY COUNTY: 1958



EMPLOYMENT LEGEND



DEPARTMENT OF COMMERCE

BUREAU OF ECONOMIC ANALYSIS



# Introduction

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### 1. Earlier Censuses of Mineral Industries

The 1958 Census of Mineral Industries is the fourteenth such census of the United States. The first minerals census covered the year 1840. Such censuses have been conducted for the intervening years: 1850, 1860, 1870, 1880, 1889, 1902, 1909, 1919, 1929, 1935, 1939, and 1954. Present legislation provides for a Census of Mineral Industries to cover the year 1963 and every fifth year thereafter.

The scope and quality of the minerals censuses have varied. While many of the problems and concepts involved in such a census were recognized early, the difficulties of locating mineral operators and the meager records often maintained impaired the quality of the first few censuses. Beginning with 1880, however, fairly comparable statistics have been available. The most comprehensive previous censuses are those covering the years 1880, 1889, 1902, 1909, 1919, 1939, and 1954.

The 1958 minerals census was conducted jointly with the Censuses of Manufactures and Business (Wholesale, Retail, and Services). All of these censuses covered the continental United States, Alaska, and Hawaii. The United States total figures in this report do not include establish-

ments in Alaska and Hawaii, which did not achieve Statehood until 1959. Separate statistics for Alaska and Hawaii are included in the pertinent industry reports and separate chapters on Alaska and Hawaii are included in the Area Statistics Volume.

For 1958 as in previous years, most of the basic inquiries were common to the Censuses of Mineral Industries and Manufactures. The statistics published for mineral industries are generally comparable with those published for manufacturing industries, although in somewhat greater detail.

### 2. Publication of the 1958 Minerals Census Results

The 1958 Census of Mineral Industries final results are published in two volumes: Volume I, General Summary and Industry Statistics, shows comparative summary statistics for industries and States for such measures for mining establishments as employment; payrolls; capital expenditures; value of shipments; value added in mining; minerals received for preparation; supplies, fuels, and electric energy; cost of contract work; and cost of purchased machinery installed. Selected industry statistics are shown by size of establishment and by type of operation. Separate reports containing detailed industry figures are included for 20 groups of industries and summary reports for 4 broad industry groups. Volume II, Area Statistics, shows for each State, and for major mining industries within the State, such statistics as indicated above, and less detailed figures for counties. A listing of number of establishments in each of 22 mineral industry groups for broad size classes by county is also included for each State.

### 3. The Mineral Industries and Other Segments of the Economy

The mineral industries in recent years have accounted for less than 2 percent of national income and have required employment of less than 2 percent of all gainful workers in the United States. Nevertheless, the mineral industries furnish an increasing proportion of the raw materials base of the economy. In 1957, the mining industries supplied 34 percent of all raw materials produced; agricultural materials, 59 percent; forest products, 6 percent; and fishery and wildlife products, 1 percent. This may be compared with averages for the first decade of this century when mineral products accounted for only 17 percent of all raw materials. Table A compares such figures for three periods in the last half century.

Production of minerals in the United States requires a relatively much greater expenditure of capital and equipment than is needed for the manufacturing industries. Although value added in mining in 1958 amounted to less than 9 percent of total value added for mining and manufacturing combined, capital expenditures in the mineral industries were 22 percent of the total for mining and manufacturing, and in 1954 (the most recent year for which such statistics are available) horsepower of



TABLE A.--PERCENTAGE DISTRIBUTION OF RAW MATERIALS PRODUCTION FOR SELECTED PERIODS: 1900-1957

Raw materials group	1900-1909 average	1920-1929 average	1950-1957 average
All raw materials.....	100	100	100
Minerals.....	17	26	33
Agricultural materials...	66	62	60
Forest products.....	15	10	6
Fishery and wildlife products.....	1	1	1

Source: U. S. Bureau of the Census. Raw Materials in the United States Economy: 1900-1957 (Working Paper No. 6, to be published in 1962).

power equipment, excluding highway-type equipment, 21 percent of the total. (See table B.) The crude petroleum and natural gas extraction industries accounted for 17 percent of these capital expenditures. (In comparing figures in table B, it should be noted that value added in mining includes a measure of value added in the development of mineral properties, see section 26, and capital expenditures include expenditures for development of mineral properties, see section 23.)

#### 4. Definition of the Mineral Industries

The minerals census covers all establishments classified in Division B--Mining, according to the 1957 re-

TABLE B.--VALUE ADDED, EMPLOYMENT, AND CAPITAL EXPENDITURES: 1958; AND HORSEPOWER OF EQUIPMENT: 1954; IN MINERAL AND MANUFACTURING INDUSTRIES

Item	Mineral industries		Manufacturing industries	Mineral industries as percent of mineral and manufacturing industries	
	All mining	Oil and gas extraction only		All mining	Oil and gas extraction only
Value added (1958).....\$1,000,000..	13,381	9,035	141,270	8.7	5.8
Capital expenditures (1958).....do..	2,798	2,190	10,094	21.7	17.0
Employment (1958).....do..	733	313	15,996	4.4	1.9
Horsepower of power equipment:					
Including highway-type (1954).....do..	40,711	20,101	(NA)	(NA)	(NA)
Excluding highway-type (1954).....do..	29,351	12,939	108,362	21.3	9.4

NA Not available.

vision of the Standard Industrial Classification Manual, (Executive Office of the President, Bureau of the Budget, 1957).

The SIC is the system used by all Federal statistical agencies, by most State agencies, and many private organizations. There is no other industrial classification system in widespread use, nor is there any other general purpose system that is described in detail in official manuals or other published documents. Awareness of the SIC by business analysts, executives, statisticians, research scholars, and others has grown rapidly and will continue to increase particularly in view of the adaptability of the decimal numeric system in mechanical processing.

The SIC is an industrial classification of the total economy. It divides all activities into broad industrial divisions (mining, manufacturing, retail, agriculture, etc.). It further subdivides each division into major industry groups, then into industry groups, and finally into individual industries. The numbering system provides flexibility, permitting use of classification at various levels of detail according to the specific needs and uses desired.

The manual defines Division B as including all establishments primarily engaged in mining. This term is used in the broad sense to include the extraction of minerals occurring naturally: solids, such as coal and ores; liquids, such as crude petroleum; and gases, such as natural gas. The term "mining" is also used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparation

needed to render the mineral marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the development of mineral properties are classified separately but within this division.

Mining operations are classified by industry, on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in process. The recovery of material from culm banks, ore dumps, and other waste minerals piles is classified in the appropriate mining industry according to the mineral product recovered.

Mineral preparation plants are usually operated together with mines or quarries and frequently no separate records for them are maintained. All such preparation plants are included in the scope of the minerals census. In general, separately operated preparation plants, whether they process minerals for the account of the operator or on a custom or toll basis for others, are also included in the minerals census. Coal cleaning and sizing plants operated at mines or as separate establishments are so included. However, the crushing, grinding, or otherwise treating of certain nonmetallic minerals at separately operated plants is included in the manufacturing industries.

Contract hauling (except out of open-pits in conjunction with mining) is excluded from the mineral industries.

Statistics on mining operations which are carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel op-



erations at ready-mix concrete plants) are not within the scope of this census. However, certain information on these operations has been obtained in the 1958 Census of Manufactures and is included in some of the summary and industry reports and in the State reports. Wherever such inclusion occurs, it is clearly specified.

All blast furnaces; metal smelters; metal and petroleum refineries; plants manufacturing cement, brick, tile, and pottery; and plants engaged in dressing or polishing stone are classified in the manufacturing industries. Separate reports were obtained and included in the minerals census for the few ore dressing plants operated in conjunction with smelters and for the few natural gas liquids recovery plants operated as parts of chemical establishments.

## 5. Industry Classification

The industry classifications used in this Census are those specified in the Standard Industrial Classification. This classification divides the "Mining" industries into five Major Groups: Metal mining; Anthracite mining; Bituminous coal and lignite mining; Oil and gas extraction; and Nonmetallic minerals, except fuels, mining. These five major groups are divided into 20 subgroups and into 55 individual industries. Table C shows the relative magnitude of the 5 major groups in terms of value added in mining and employment.

TABLE C.--VALUE ADDED AND EMPLOYMENT IN THE MINERAL INDUSTRIES, BY MAJOR INDUSTRY GROUP: 1958

Industry group	Value added in mining		Employment	
	Million dollars	Percent of total	Thousand employees	Percent of total
All mineral industries.....	13,381	100	733	100
Metal mining.....	1,187	9	93	13
Anthracite mining...	164	1	23	3
Bituminous coal and lignite mining.....	1,610	12	188	26
Oil and gas extraction.....	9,035	68	313	43
Nonmetallic minerals mining.....	1,384	10	117	16

Separate general statistics are published for all the SIC industries. Also, selected statistics are published for certain subindustries, such as lead ores, zinc ores, oil- and gas-field well surveying and cement wells services, crushed and broken limestone, glass sand, and asbestos. The definitions of these industries and subindustries are included in the introductory texts of the pertinent industry reports.

The industry and subindustry classifications used in the 1958 minerals census are, in general, the same as the industry classifications used in the 1954 minerals census, since it was possible to include classifications proposed for the 1957 SIC revisions as industry groupings or as subindustries in the 1954 census.

## 6. Establishment Statistics

The Census of Mineral Industries obtains data, on the basis of an entire establishment, for the output and shipments of mineral products; operating and development costs; and

labor, mechanical equipment, and materials requirements. Because of the nature of most operators' records, these data necessarily include the secondary products of the establishment as well as the primary products which determine the industry classification. Thus, some bituminous coal mines also produce clay, many oil wells also produce gas, silver ores contain significant quantities of copper, lead, zinc, gold, and other metals. Mines producing significant quantities of two or more different minerals are classified according to the mineral of greatest value (not tonnage) shipped during the year. A mine producing ores containing both silver and lead, for instance, is classified as a silver mine if the silver contained exceeds in value the lead content and vice versa. In most mining industries, however, the production of secondary minerals is of little statistical importance. This differs from the situation in manufacturing where about half of the industries have secondary production amounting to 10 percent or more of total shipments.

Operating companies were instructed that a mineral establishment, for purposes of the census report, is generally defined as a single physical location where mineral operations are conducted; for example, a mine only, a mine and preparation plant, or a preparation plant only. An establishment in this census, in general, represents workings at a given locality in which operations are conducted as a unit or are unified by common management or joint handling of some part of the mining or preparation process. Individual shafts, openings, or sites, however, are not necessarily considered as individual establishments.

For oil- and gas-field operations and contract services, reports were required for units somewhat different from the "establishment" reporting unit used for other types of mining. Only one report was required for all oil- and gas-field operations of a reporting company in each State. (However, information on employment and oil and gas production was included in this report on a county basis.) For service operations, only one report was required for all mineral services of a company in continental United States and its territories of Hawaii and Alaska. (However, information on employment and receipts for services were requested by county.)

In practice, some flexibility was allowed in the application of the establishment definition in specific industries. Where a company did not keep separate records for two or more establishments engaged in the same type of activity and located within the same State and county, a consolidated report was usually accepted and the operations counted as a single establishment. Separate reports were frequently furnished for open-pit and underground operations, but consolidated reports were made for most industries, and such consolidation becomes very important in the anthracite industry.

Census tabulations of establishment reports differ substantially from those prepared on a company basis which not only combine activities at different locations (thereby eliminating interplant transfers) but also include the manufacturing activities of companies primarily engaged in mining. Census figures also differ to some extent from other surveys based on establishment reports where the definition of an establishment as to location and line of activity is not so rigidly applied.

Establishment counts shown in the 1958 Census are closely comparable with those for most earlier years. However, for some years, such as 1929 and 1919, consolidated reports covering two or more operations appear to have been accepted to a greater extent than in 1958.



## 7. Coverage of the Census

The 1958 Census of Mineral Industries excludes very small establishments and certain noncommercial operations. The small establishments excluded represent those without employees and for which each of the following three items amounted to less than \$500 for the entire year: (1) value of products shipped and services performed for others; (2) expenses for wages, salaries, supplies, minerals received for preparation, fuel, purchased electric energy, contract work, and purchased machinery; and (3) capital expenditures for development and exploration of mineral properties, new construction and major alterations, and new and used machinery and equipment.

The cutoff for establishments covered in the 1958 census was essentially the same as that used for 1954, but lower than in other recent minerals censuses. For 1939 and 1929, in general, small establishments were excluded if each of three similar items amounted to \$2,500, and for 1919, if value of products was less than \$500 and expenditures for development work less than \$5,000. For bituminous coal and lignite an output criteria of 1,000 tons was used in these three censuses. For 1939, common sand and gravel operations were excluded if they produced less than 15,000 tons of sand and gravel and had expenses of less than \$15,000. For 1929, common sand and gravel establishments producing less than 25,000 tons were excluded, and this industry was not covered in censuses prior to 1929. Minima for size of establishment included were not provided for earlier censuses.

The production of minerals, particularly stone, sand, and gravel, by Federal, State, and local governments is excluded

from the census. Also excluded is some production of these items by highway contractors who do not maintain separate records for sand and gravel production. The census includes, however, mining establishments operated entirely to serve other establishments of the same company, such as coal mines serving only coke ovens operated by the same company, oil and gas wells serving only refineries or public utilities owned by the same company, and copper mines and mills where all of the ore is transferred to a company owned smelter.

The 1958 Census of Mineral Industries covered establishments meeting the value criteria whether or not they had employees. The mailing lists available for establishments with no employees, such as establishments for which all labor was furnished by proprietors or contractors, were somewhat less complete than for those with employees. However, it is believed that in most areas such establishments were included where they met the specified criteria. Specific limitations in such coverage are discussed in the separate industry texts.

Establishments reported as having no employees accounted for 11 percent of all establishments, and those with less than 5 employees for 54 percent. Establishments with less than 5 employees, however, accounted for only about 4 percent of the value of shipments reported for all mineral industries for 1958 and for 6 percent of capital expenditures. Establishments without employees were most important in certain metal mining industries, and in the anthracite, crude petroleum and natural gas, dimension stone, common clay, mica, pumice and pumicite, and peat industries. Table D shows the relative importance of such establishments by industry groups.

TABLE D.--NUMBER OF ESTABLISHMENTS, VALUE OF SHIPMENTS, AND CAPITAL EXPENDITURES FOR ESTABLISHMENTS WITH LESS THAN 5 EMPLOYEES, AND NUMBER OF ESTABLISHMENTS FOR ESTABLISHMENTS WITH NO EMPLOYEES, AS PERCENTS OF TOTALS FOR ALL ESTABLISHMENTS IN THE MINERAL INDUSTRIES, BY INDUSTRY GROUPS: 1958

Industry group	Establishments with less than 5 employees			
	Number of establishments		Value of shipments and receipts	Capital expenditures
	Total	With no employees		
All mineral industries.....	54	11	4.3	6.0
Metal mining.....	67	26	1.6	5.2
Iron ores.....	29	9	1.4	2.5
Copper ores.....	58	22	0.1	0.6
Lead and zinc ores.....	63	22	1.4	8.0
Gold and silver ores.....	88	42	3.4	40.6
Bauxite.....	52	14	4.5	( <sup>1</sup> )
Ferroalloy ores.....	71	33	3.9	20.9
Metal mining services.....	51	7	3.6	7.8
Miscellaneous metal ores.....	72	27	2.7	6.1
Anthracite mining.....	67	38	12.4	8.1
Bituminous coal and lignite mining.....	43	6	2.9	5.3
Oil and gas extraction.....	60	11	4.7	6.0
Crude petroleum and natural gas.....	72	15	5.6	6.0
Natural gas liquids.....	15	1	1.5	14.3
Oil and gas field services.....	40	3	3.6	2.0
Nonmetallic minerals mining.....	44	9	4.6	7.4
Dimension stone.....	63	16	16.3	44.9
Crushed and broken stone.....	25	4	2.4	3.0
Sand and gravel.....	50	9	9.5	15.8
Clay and related minerals.....	48	15	5.8	5.8
Chemical and fertilizer minerals.....	35	6	0.5	0.7
Nonmetallic minerals services.....	47	4	10.7	25.2
Miscellaneous minerals.....	63	21	6.7	13.8

<sup>1</sup>Less than 0.05 percent.



In general, it is believed that the 1958 minerals census reports provided essentially complete coverage of production and development operations. However, the coverage was probably somewhat less complete for the crude petroleum and natural gas industry. Only about 97 percent of the total shipments of oil, and probably about 97 percent of the total shipments of gas, were covered. This may be compared with an indicated 96 and 95 percent, respectively, in the 1954 minerals census. The special problems faced in covering this industry, and details on the apparent coverage attained, are discussed in the special text for Crude Petroleum and Natural Gas. Undercoverage of the crude petroleum and natural gas industry appears to have reduced the over-all minerals census coverage of value of shipments by only about 1 percent. However, this undercoverage is more significant for certain States, particularly for Kansas and Oklahoma where the apparent coverage of all mineral operations in the State was between 94 and 95 percent.

## 8. Census Geographic Divisions

In order to present census data at a level intermediate between the United States and the individual 48 States, the Census Bureau has used regional groupings for over a century. Beginning with the 1909 Census of Mines and Quarries, the present nine geographic divisions have been used.

Not only are these groupings convenient for the summary presentation of census statistics below the United States level, but they are needed to present uniform geographic information for those individual industries in which application of the Census disclosure law precludes the publication of individual State figures. The relative importance of the mineral industries in 1958 among States and geographic divisions is shown in Table E.

TABLE E.--VALUE ADDED IN MINING BY GEOGRAPHIC DIVISIONS AND STATES: 1958

Division and State	Value added in mining (million dollars)	Per-cent	Division and State	Value added in mining (million dollars)	Per-cent	Division and State	Value added in mining (million dollars)	Per-cent
United States, total.....	13,381	100.0	West North Central-- Con.			West South Central..	6,159	46.0
New England.....	32	0.2	Missouri.....	66	0.5	Arkansas.....	111	0.8
Maine.....	2	( <sup>1</sup> )	North Dakota.....	40	0.3	Louisiana.....	1,528	11.4
New Hampshire.....	2	( <sup>1</sup> )	South Dakota.....	25	0.2	Oklahoma.....	674	5.0
Vermont.....	7	0.1	Nebraska.....	64	0.5	Texas.....	3,846	28.7
Massachusetts.....	11	0.1	Kansas.....	378	2.8	Mountain.....	1,746	13.0
Rhode Island.....	1	( <sup>1</sup> )	South Atlantic.....	940	7.0	Montana.....	116	0.9
Connecticut.....	9	0.1	Delaware.....			Idaho.....	37	0.3
Middle Atlantic.....	733	5.5	Maryland.....	23	0.2	Wyoming.....	344	2.6
New York.....	116	0.9	District of Co- lumbia.....			Colorado.....	249	1.9
New Jersey.....	38	0.3	Virginia.....	135	1.0	New Mexico.....	532	4.0
Pennsylvania.....	580	4.3	West Virginia....	607	4.5	Arizona.....	189	1.4
East North Central...	936	7.0	North Carolina....	28	0.2	Utah.....	246	1.8
Ohio.....	191	1.4	South Carolina....	13	0.1	Nevada.....	32	0.2
Indiana.....	103	0.8	Georgia.....	52	0.4	Pacific.....	1,265	9.5
Illinois.....	452	3.4	Florida.....	83	0.6	Washington.....	24	0.2
Michigan.....	158	1.2	East South Central...	651	4.9	Oregon.....	16	0.1
Wisconsin.....	32	0.2	Kentucky.....	320	2.4	California.....	1,225	9.2
West North Central...	919	6.9	Tennessee.....	69	0.5			
Minnesota.....	312	2.3	Alabama.....	127	0.9			
Iowa.....	33	0.2	Mississippi.....	135	1.0			

<sup>1</sup>Less than 0.05 percent.

## 9. Cooperation with the Bureau of Mines

The Bureau of Mines, United States Department of the Interior, cooperated with the Bureau of the Census in conducting the 1958 minerals census. The purpose of this cooperation was to assure comparable coverage and comparable but, insofar as feasible, unduplicated results.

The Bureau of Mines supplied copies, or partial copies, of its mailing lists (1) to assure that all establishments producing minerals which were shown in its lists would also be covered in the 1958 censuses and (2) to provide a list of establishments having no employees. Considerable supplementation of the Census "No employee" lists was provided from this source, particularly for Major Groups 10, 11, and 14.

The Bureau of Mines played an important role in the development of the report forms in order to minimize duplication of requested data and to assure at the same time that some comparable items were included by both agencies to relate the more detailed Bureau of Mines commodity data to the Census statistics. The Bureau of Mines also cooperated in the development of a comparison of the basic commodity statistics tabulated by the two agencies. This is shown in table 7 of the General Summary Report.

## 10. Census Mailing List

The basic mailing list for the 1958 Censuses of Mineral Industries, Manufactures, and Business, comprised all employers (except farmers, State and local govern-



ments, and a few other classes) who made one or more quarterly payments in 1958 under the Federal Insurance Contributions Act. The list was obtained from the Internal Revenue Service of the Treasury Department. It contained all of the information necessary for mailing of the Census questionnaires except the industry classification of the employer.

The IRS list was compared with various lists carrying the industry identification necessary for selection of the appropriate Census questionnaire. The matching operations, which were done on electronic equipment, were made possible by the fact that both the IRS list and certain of the classified lists contained the Social Security employer identification number.

Mailing list supplementation was necessary for "multiunit" companies—those with more than one mining, manufacturing, or business establishment. A prec canvass was conducted by use of Forms NCX-1A and NCX-1B. Form NCX-1A was sent to about 10,000 large companies and called for a listing of subsidiary corporations and of each establishment owned by the parent company or its subsidiaries. Form NCX-1B was sent to about 40,000 smaller firms. These forms differed only in that NCX-1A prelisted all known establishments operated. The NCX-1B, which went to firms with less than 5 establishments in 1954, did not prelist the establishments. The prec canvass was performed jointly for the Censuses of Mineral Industries, Manufactures, and Business.

A general purpose form, NCX-3, was used for concerns having EI numbers on the IRS list which did not match the classified lists, and in cases where the EI numbers matched but the classified lists did not provide sufficient information for selection of a specific questionnaire. The industry code of employers thus canvassed was assigned after receipt of the NCX-3 on the basis of the information reported on that form. When the establishment filing the NCX-3 was large or where otherwise necessary, additional information was obtained to complete the appropriate inquiries for the industry to which the establishment was assigned.

The files were supplemented by Bureau of Mines lists, which furnished the principal source of names, addresses, and industry classifications for establishments without employees. (See Section 9.) In addition, for the oil and gas industries, they were supplemented by a prec canvasses of oil and gas field service companies to obtain the names and addresses of companies served. Almost 4,000 names were added to the oil and gas field operators list on the basis of this survey.

In the 1958 Census the report forms were distributed and returned by mail. Personal or telephone contact was made only when the operator did not respond to the initial request or follow-up letters. The mailing, collection, check-in control, screening, coding, routine editing, and punching were performed at the Bureau's operations office in Jeffersonville, Indiana. Subsequent work was done in Washington, D. C.

At various stages of processing of the reports coverage checks were conducted to determine whether establishments on the original list were represented in the processing stage under study. Moreover, many comparisons were made with mailing lists being used currently by the Bureau of Mines. These checks indicated virtually complete mailing of reports to all names on the mailing list. For omissions discovered in these checks, either the missing reports were located or new reports obtained.

## 11. Census Report Forms

Only one report form was required, in general, for the operations of each establishment. The report forms used were adapted to the 55 industries classified in mining, 27 different establishment forms being provided for the 1958 minerals census. These included 20 standard forms used for all large and multiestablishment companies and 7 short forms used for small establishments. For the larger industries, the standard forms, requiring full census detail, were used only for establishments above a given size in terms of number of employees. For the numerous smaller establishments, typically having less detailed records and representing a very small portion of output and employment, data requirements were limited to a relatively few key items on a series of short forms differing principally in the preprinted lists of product class items in the shipments inquiry. The size cutoff for short forms varied according to the size composition of the industry so that, while the forms covered a small percentage of each industry's aggregates (employment, etc.), they represented a much higher proportion of number of establishments. The cutoff generally ranged from 4 to 10 employees. In a few of the very small industries no short forms were used. (About 15,000 of the approximately 36,000 reports in the minerals census were tabulated from short forms.)

Using the administrative records of the Bureau of Old Age and Survivors Insurance in conjunction with existing Bureau of the Census records, it was possible to determine correctly, in most cases, the type of form each establishment should receive.

(a) Standard Forms.—Each standard form called for the same general items—employment, payrolls, man-hours, materials costs, detailed fuels and electric energy costs, and capital expenditures—regardless of the industry or industry group. However, the forms differed in that detailed inquiries on the quantity and value of individual products shipped and individual supplies used as well as miscellaneous inquiries such as types of operation and oil well drilling costs were adapted to the individual industry or industry group. (Sample forms appear in Volume I—Appendix C.)

(b) Short Forms.—These forms, designed for small establishments as noted above, were an abbreviated version of the standard forms and requested limited general and product information. For example, only total employment and payroll figures were requested, without detail by functional class (production workers and all other employees); production-worker man-hours and wages were not requested on short forms. Instead of detailed information on individual products the short forms requested value of shipments mainly in terms of product classes. There were 7 different short forms: one for metal mining, one for coal mining, 2 for oil and gas extraction, and 3 for nonmetallic minerals mining.

(c) Form for Separate Central Administrative Offices and Auxiliaries of Mining Companies. Separate reports for each central administrative office and auxiliary unit (storage warehouses, research laboratories, garages, repair shops, etc.), which served the mining establishments of the company rather than the general public, were obtained from the company if they were at locations different from the establishments served or if they serviced more than one establishment. The report form included inquiries on payrolls and employment. Approximately 600 such mining reports were tabulated in 1958. They accounted for about 42 thousand employees with payrolls of about \$308 million,



which represents 5.7 percent and 8.2 percent, respectively, of the totals for all mining.

The employment and payrolls for these separate administrative offices and auxiliaries are included in the industry and State totals, unless otherwise specified. The employment and payrolls of such administrative offices and auxiliaries are also shown separately as tables 4 and 5 of the summary report, Employment and Related Statistics.

(d) A special form was provided for offshore oil and gas operations. It was required for each State in which a company performed such operations.

## 12. Comparison of 1958 and 1954 Census Report Forms

The inquiries on the 1958 census forms were very similar, in general, to those on the 1954 forms. There were some basic differences, however, in the information requested.

(a) The 1958 report forms requested somewhat less detail on the quantity and value of shipments than in 1954. This was in order to eliminate, insofar as possible, duplications between Census and Bureau of Mines product detail. The 1958 data are primarily product class statistics which provide a benchmark for Bureau of Mines figures and serve to relate available more detailed product statistics to the Census statistics on operating costs and capital expenditures.

(b) For 1958, no data were requested on the horsepower of power equipment or on loading equipment used. The Census program provides for obtaining such data only once in approximately 10 years. It is planned that such data will be obtained as part of the 1963 Census program.

(c) No information was obtained on water used in the mineral industries. Such data are now being collected periodically by the United States Bureau of Mines.

(d) Employment and receipts for services by county were obtained for the first time from all service establishments. Operators of oil and gas field properties also reported for the first time natural gas shipments by county. These data permitted the first publication in the State reports of complete county statistics on employment, payrolls, and value of shipments and receipts.

## 13. Establishment Location and Company Characteristics

Information was obtained on all 1958 forms regarding the physical location, Social Security employer identification number, company affiliation, and legal form of ownership. This information not only provided for completeness-of-coverage control in the census (see section 10.-Census Mailing List), but also permitted the classification of each establishment by geographic location and type of legal organization.

## 14. Type of Operation

The type of operation statistics in industry reports are based primarily on replies to a check box inquiry which listed the usual mining and mineral preparation methods used in a particular industry. The respondent was asked to check each method used in the establishment reported. Wherever possible, separate statistics are provided on establishments using underground mining methods, using a combination of underground and open-pit methods, and using open-pit methods only. For selected industries, separate statistics are provided by type of underground mining, such

as for establishments having as the dominant method open stoping, shrinkage stoping, square setting, or block caving. Separate figures are provided, where possible, for mines with and without preparation plants; and for establishments with preparation plants classified by the dominant preparation method, such as crushing, washing, flotation, or gravity concentration. Separate statistics are also provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year. For the crude petroleum and natural gas industries, details were obtained on the type of wells drilled and operated and reports were classified on the basis of whether they represented oil wells only, both oil and gas wells, or gas wells only, and on the basis of whether or not they included drilling.

## 15. Number of Operating Companies

For the purpose of this census, an operating company is defined as a corporation, individual proprietorship, partnership, cooperative, or other organization, regardless of size, directly engaged in production or development activities at one or more mineral establishments. An operating company may own the property operated or be the lessee of such property or operate for the account of others on a contract or fee basis. Regardless of the number of establishments operated by a company, or the number of States operated in, the company is counted only once in summary statistics. Hence, the sum of the detailed statistics for number of operating companies is usually greater than the statistics shown for group totals.

## 16. Persons Engaged

The employment statistics represent all full-time and part-time employees at the establishment who worked or received pay for any part of the pay period ending nearest the 15th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacation during these pay periods. Also included are employees of miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but who were on the payroll of another employer (such as employees of contractors) and employees at company stores, boarding houses, bunk houses, and recreational centers. Also excluded are members of the armed forces, and pensioners carried on the rolls but not working during the period. Officers of corporations are included as employees; but proprietors and partners of unincorporated firms are excluded.

This total employment is divided into two functional classifications comparable with the basic classifications used for the manufacturing industries. The instructions to mining companies for reporting these two employee classifications were as follows:

Production and development workers.--Employees up through the working foreman level engaged in manual work, using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards. Included are exploration work, mine development, storage, shipping, maintenance, repair, watchmen services, auxiliary production for use at establishments (such as power plant), record keeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and foremen who performed manual labor are included, as are employees



paid on either a time- or piece-rate basis. Also, included are miners paid on a per ton, car, or yard basis and the men engaged by them and paid out of the total amount received by these miners, and other employees at the establishment but not on its payroll if paid directly through its own employees, such as superintendents and foremen. Supervisory employees above the working foreman level are excluded from this category.

All other employees.--Nonproduction personnel at the establishment and above the working foreman level. These are engaged in such activities as supervision, sales, highway trucking (by employees not entering mines or pits), advertising, credit collection, clerical, and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant who are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as "production and development workers.")

Employees at an office located at or near the mining establishment are usually included in the mine report. Where such offices or auxiliary units were reported separately their employees are included in the totals for individual industries and the State tables for each industry, but are not always classified by type of operation or by frequency class in frequency tabulations. These figures, classified by industry and State, are also shown separately in the summary report, Employment and Related Statistics. This practice differs from that used in the Census of Manufactures, in which employment at central administrative offices and auxiliary units were included in total manufacturing but not in individual industries.

In the mineral industry reports, besides these statistics on two types of employment, figures are shown on the total number of proprietors and firm members, and separately on the number of these who regularly performed production or development work.

#### 17. Monthly and Average Employment

The 1958 report forms requested employment figures for "production and development workers" for four selected pay periods (mid-month employment in March, May, August, and November). For "all other employees" only a mid-March figure was requested. The "annual average" is composed of an average of the four monthly figures for "production and development workers" plus the March figure for "all other employees."

This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods approximates very closely for almost all industries the average employment for the year that would be obtained from 12 monthly pay periods.

The employment averages shown in this report for all industries are based on the four-month figures described above. However, many of the mineral industries are highly seasonal. For such industries, figures on production and development workers were collected for all twelve months and are shown in table 3 of the industry reports.

The average employment for mines, based on 4 or 12 monthly figures, is generally comparable with employment

statistics compiled for manufacturing and mining by other Government agencies but is lower than the measure used in annual accident and other reports to the Bureau of Mines. The latter measure represents the "average number of employees on active days," excluding shutdown periods. Such averages generally exceed the average for 12 months, sometimes by as much as 25 percent.

#### 18. Production and Development Worker Man-Hours

The total man-hours figures represent all man-hours of production and development workers (as defined in Section 16) which were worked on both active days on which there was production or development work and on inactive days when only watchmen, inspectors, repairmen, and other maintenance men were on duty. They include all man-hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the mine. Included are actual overtime hours, not straight-time equivalent hours. Man-hours of working proprietors are excluded.

The Census man-hour figures differ from those published monthly by the Bureau of Labor Statistics which cover all hours paid for, whether or not worked, and relate only to the payroll period ending nearest the middle of each month. They differ from man-hours collected by the Bureau of Mines which include data for all employees classified as exposed to accidents, rather than only production and development workers.

Census man-hour figures were collected separately by department, such as for work in underground mining and development, in open-pit mining and stripping, at surface shops and yards for the mine, and at preparation plants (including auxiliary works for these plants). For the oil and gas industries, separate figures were obtained for operating and maintaining wells, for drilling wells and rig building, for exploration work, and for other work. A separate figure was also obtained on man-hours devoted to development and exploration work and charged to capital or depletion accounts.

Man-hours were well reported for the larger establishments, although the distribution by department was inadequately reported in some instances. Where total man-hours, or the distribution by department, were not reported and it was not feasible to obtain the information by correspondence, the data were estimated. Since such estimates were usually for small establishments, they have little effect on the validity of the statistics, except possibly those for small operations in the size of establishment tabulations.

#### 19. Payrolls for the Year

This item represents the gross earnings paid in the calendar year 1958 to all employees on the payroll of mining establishments, and is comparable with the definition of payrolls used for the Federal withholding tax. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind; prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. Included are payments to miners paid on a per ton, car, yard, or footage basis. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners, if an unincorporated concern. It excludes payments to



members of the armed forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production and development work but charged to employees and deducted from their wages.

The 1958 Census definition of payrolls is that recommended to all Federal statistical agencies by the Bureau of the Budget, and is the same as that used for 1954. It should be noted that it does not include employers' Social Security contributions or other nonpayroll labor costs such as employers' pension plans, group insurance premiums, and workmen's compensation. It should be noted also that these payrolls include wages paid employees of the establishment for development and construction work which would be charged to the capital account.

As in the case of employment figures, the payrolls of separately reported offices and auxiliary units are included in the industry and State tables, but also shown separately by industry and State in the summary report, Employment and Related Statistics.

#### 20. Supplies and Related Costs, Contract Work, and Purchased Machinery

The 1958 Census report forms requested information on supplies, fuels, and electric energy used; on contract work done by others; and on purchased machinery installed for each establishment. These items included charges to both the current and capital accounts. The figures reported were to include items used during 1958 whether purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the items are included. Where the company's records did not show actual amounts used, they were asked to approximate use by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory.

Separate figures were obtained for (a) selected supplies for some industries; (b) the value of minerals received for preparation (see Section 22); (c) the amount paid for electric energy purchased; (d) the amount paid for all purchased fuels used for heat, power, or the generation of electricity; (e) the cost of contract work done by others; (f) the cost of products bought and resold in the same condition; and (g) the cost of purchased machinery installed. Supplies and equipment used in mine development and plant expansion and capitalized repairs, which are chargeable to fixed assets accounts, were included as were supplies furnished without charge to contractors for use at the mining operation and also supplies sold to employees for use at the establishment (see Section 19). No data were obtained on such costs as advertising, insurance, telephone, and research and consulting services of other establishments; or on overhead costs, such as depreciation charges, rent, interest, and royalties.

Under contract work, companies were instructed to report the total amounts paid or due for contract services performed during the year, including payments for supplies and equipment furnished by the contractor in-

cidental to this work. If part of the payment to contractors was in materials produced, the respondent was asked to estimate the value of the service performed. However, payments to miners paid on a per ton, car, yard, or footage basis were included under payrolls rather than under contract work (see Section 19).

Under purchased machinery, companies were instructed to report all machinery, equipment, and parts for renewals and repairs, including equipment installed in the mine or mill as well as mobile loading and transportation equipment.

#### 21. Specific Supplies Used

In the 1958 minerals census, uniform quantity and cost data were obtained on the use of selected supplies. Comparable statistics on these items are available for 1954. Collection of the supplies data was coordinated with the expanded manufactures statistics program for the 1958 Census, which obtained data on about 200 materials for industries that accounted for 90 percent or more of their consumption in manufacturing.

For the minerals census, data on the quantity and cost of explosives and of steel mill shapes and forms used were obtained for the metal mining industries and for coal mining, and also, for coal mining, data were obtained on the cost of round and hewn woods products and stumpage. For the crude petroleum and natural gas industries, data were obtained on the quantity and cost of gas purchased for gas lift and repressuring.

#### 22. Minerals Prepared

On report forms for almost all mineral industries, except the oil and gas and contract services industries, a uniform inquiry was included on minerals prepared at the reported establishments. Separate quantity figures were obtained on minerals prepared from three sources: (a) crude minerals mined at the establishment (quantity); (b) crude minerals received from other establishments of the company or purchased from others (quantity and cost); and (c) crude minerals received for preparation on a custom or toll basis (quantity and estimated value).

#### 23. Capital Expenditures

In the 1958 Census, mining companies were asked to report expenditures made during the year for development and exploration of mineral properties, for new construction, and for machinery purchased at their operations that were chargeable to fixed-assets accounts of the mining establishment and were of a type for which depreciation, depletion, or Defense Minerals Exploration Administration accounts are ordinarily maintained. Capital expenditures during 1958 were to be determined as: additions completed during the year plus construction-in-progress at the end of the year minus construction-in-progress at the beginning of the year. Reported capital expenditures were to include work done on contract as well as by the mine forces. Expenditures for machinery and equipment were to include those made for replacement purposes, as well as those for additions to capacity. Excluded from such expenditures totals are costs of maintenance and repairs charged as current operating expense. Also excluded are expenditures for land and mineral rights.

Wherever applicable, separate figures were provided on expenditures for: (a) development and exploration of mineral property, (b) preparation plant construction and



other construction, (c) new machinery and equipment, and (d) used plant and used equipment acquired from others. The 1954 minerals census which included comparable statistics was the first to cover the totality of these items. However, for 1939, data were obtained separately on (b), (c), and (d). For 1929 and 1919, data were obtained on (a).

The census figures for capital expenditures differ from estimates published on the basis of the Office of Business Economics-Securities and Exchange Commission sample survey not only because of the sampling variations but much more due to the differences in scope of the surveys. Whereas census figures cover all mining establishments, but exclude all establishments of reporting companies which are not classified in the mineral industries, the OBE-SEC figures are based on reports for an entire company, classified on the basis of its principal activities. For this reason many large metal mining and oil and gas establishments are included, for example, in the OBE-SEC tabulations as part of manufacturing. Both series, however, exclude expenditures at establishments owned by Federal or State Governments but operated under lease or contract by private companies.

#### 24. Individual Products

In the 1958 Census of Mineral Industries, information on output of about 240 individual mineral product items was collected. This represented a reduction from about 760 individual products included in the 1954 minerals census. The 1954 list of products for which separate information was collected was prepared after extensive consultation with industry and Government representatives. The detail provided for many industries was also greatly influenced by the type of detail usually collected in the Bureau of Mines annual surveys and needed by that agency to maintain comparability. Since joint forms with the Bureau of Mines were not used in the 1958 census, as they had been for many industries for 1954, detail collected in Bureau of Mines annual surveys was not duplicated in the census reports.

In general, the 1958 minerals census figures were confined to separate totals for each crude and each prepared mineral. Where significant, separate shipments figures were also obtained for crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments include commercial shipments and transfers of products to other operations of the same company. For products which are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production or separate data on production for such uses were collected. Typically, production was also collected for products for which there are usually significant differences between total production and total shipments as a result of stock changes.

For service industries the amount received or due for services performed during 1958 was collected as a measure of output. For mine operators who also perform services the amount received for such services was added to the total value of products shipped to determine total "value of shipments and receipts" for each establishment.

Table 6A of each report for individual industries provides the national and regional total shipments from all industries for each of the products primary to the in-

dustries covered in the report. Table 5 provides separate totals for the value of primary products of each industry shipped by the primary industry and the amount shipped by other industries.

#### 25. Shipments, Production, Custom Milling, and Net Shipments

"Shipments" figures include all products physically shipped from the establishment during 1958, including material withdrawn from stockpiles, and products shipped on consignment, whether or not sold in 1958. Prepared material or concentrates include preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, the company was requested to report the approximate commercial value not merely the cost of producing the items. All values were requested f.o.b. the establishment reported.

The figures for "Value of shipments and receipts" of an industry include for all establishments classified in the industry: (a) the value of all "primary" products of the industry; (b) the value of "secondary" products which are primary to other industries; (c) the receipts for contract work done for others (except custom milling); and (d) the value of products purchased and resold without further processing. Receipts for custom milling are omitted from this total and shown separately to avoid duplication with the value of custom milled ores included in (a) or (b).

For industry and industry group totals some duplication is introduced by the inclusion of materials transferred from one establishment to another for mineral preparation. In general, where this duplication is significant, figures are shown both for "gross" and "net" shipments. The "net" shipments are obtained by subtracting the value of crude minerals transferred to other establishments for preparation from the "gross" shipments. Wherever value of shipments is shown without further specification, it represents gross shipments.

For years prior to 1954, data on shipments were not collected. Instead, the report forms requested data on the quantity and value of production. In general, the data for these years were edited to represent "net" production, excluding duplications due to mining and later preparing the same material in the same industry.

Another source of duplication in the industry totals, particularly in the major group totals, for value of shipments is the inclusion of the cost of contract work performed by one establishment for another as well as the value of products produced by the assistance of this contract work. Only part of the contract work performed during a given year, however, results in production during that year. Another significant portion results in capital additions to the industry. It was not possible to segregate these two types of contract work in the census tabulations and the exclusion of all receipts for contract work in a computation of net shipments must be considered an over adjustment. Of the types of contract work classified in the mining services industries, only contract mining of minerals and contract pumping of wells would always warrant deduction as duplication in the value of shipments totals, and these items amounted to less than 4 percent of the total receipts for contract work by minerals establishments in 1958.



A third element of duplication in the total value of shipments for all mineral industries, and in the major group totals for the fuel producing industries, is the transfer of coal and natural gas from one mining establishment to another for use for power or heat. The total value of such fuels transferred for use in all mineral industries, however, was only \$57 million, or less than 0.3 percent of the gross value of shipments for all mineral industries.

Table F shows, for major industry groups, gross shipments and two approximate computations of net shipments, the first adjusted only for the transfer of minerals from one establishment to another for preparation and for purchases for resale without preparation and the second adjusted also by exclusion of all receipts for contract work. This second adjustment, for the reasons indicated above, is made only in table F, and nowhere else in the 1958 census reports.

TABLE F.--GROSS AND APPROXIMATE NET SHIPMENTS IN THE MINERAL INDUSTRIES, BY MAJOR INDUSTRY GROUP: 1958

Industry group	Gross shipments (million dollars)	Net shipments (million dollars)	
		Adjusted for transfer of minerals <sup>1</sup>	Adjusted for transfer of minerals and for contract work <sup>1</sup>
All mineral industries.....	18,090	16,360	14,694
Metal mining.....	1,836	1,571	1,536
Anthracite mining.....	325	234	197
Bituminous coal and lignite mining.....	2,423	2,091	2,068
Oil and gas extraction	11,637	10,656	9,100
Nonmetallic minerals mining.....	1,869	1,808	1,793

<sup>1</sup>Adjusted also to exclude duplication of minerals transferred to other establishments in the same industry for resale without preparation.

## 26. Value Added in Mining

This measure is computed for 1958 and 1954 by subtracting the cost of supplies, minerals received from other establishments for preparation, purchased fuels and electricity, contract work, and purchased machinery installed from the value of shipments and receipts and capital expenditures. This statistic avoids the duplication in value of shipments which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure not only of value added in mineral production but also in the development of mineral properties. For these reasons it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

"Value of shipments and receipts" used in this calculation includes the shipments of all products of the mining establishment, together with receipts for work done for others. "Capital expenditures" used includes expenditures for development of mineral properties as well as for new construction and major alterations of preparation plants

and other structures and expenditures for new and used machinery and equipment. The "costs" used in this calculation include costs charged to both the current and capital accounts. Both the shipments and costs figures include products bought and resold in the same condition.

For 1939 and earlier years, comparable data are not available for capital expenditures or for costs of capitalized supplies and equipment. However, a rough measure of value added in mining is computed for these years by subtracting from the value of shipments and receipts the cost of supplies, minerals received for preparation, fuels, purchased electricity, and contract work.

Value added in mining differs from "national income originating in mining," as presented in the national income estimates compiled by the Office of Business Economics, Department of Commerce. The latter measure is the sum of factor costs incurred by an industry in production. It excludes, in addition to cost of materials, such costs as depreciation charges, State and local taxes (other than corporate income taxes), allowance for bad debts, and purchases of services from other economic sectors, such as contract services classified in other sectors, services of engineering and management consultants, advertising, telephone and telegraph expenses, insurance, royalties, etc. It is, therefore, a more "net" concept for value added in mineral production than that used in the minerals census. On the other hand, the OBE figures do not include a measure of value added in development of mineral properties.

## 27. Energy Used

The 1958 Census of Mineral Industries obtained data on the quantity and cost of fuels and electric energy used in mining which are comparable, in general, to such data obtained in the 1954, 1939, 1929, and 1919 censuses. Separate quantity and cost figures were provided on purchased coal, fuel oil, gas, and electric energy, and a cost figure was obtained for other fuels.

To supplement the data on energy and energy materials purchased, data were obtained on the quantity of such items produced and used at the same establishment. In the minerals census, such data were obtained on coal, crude petroleum, and natural gas used at the producing establishment for power and heat, and on electric energy generated and used at the same mining operation. For electric energy, the figures actually collected represented total quantity generated (excluding generating-station use) and quantity of electric energy generated and sold. The difference between these two quantity figures represented electric energy generated and used.

Experience, based on past censuses, indicates that the major portion of the information compiled on detailed fuels is reported by relatively large establishments in specific industries. For this reason, inquiries on fuel detail were not directed to (a) establishments classified in 14 of the 55 industries, accounting for about 2 percent of the total cost of fuels in 1954, and to (b) establishments reported on short forms. As a result of these limitations and due to some incomplete reporting, a total of \$58 million was tabulated as "Undistributed" fuels costs, amounting to approximately 21 percent of the total fuels cost tabulated for 1958.

In order to provide total figures for energy used in specific industries, States, and types of operations,



the energy figures were reduced to a common unit of measure representing kilowatt-hours, the international unit of energy. These figures include an estimated kilowatt-hour equivalent for "Other fuels" for which only "Cost" was reported and for the "Undistributed" fuels cost. The conversion factors used in computing these kilowatt-hour equivalents were:

Coal.....	1 ton	= 7,677 kwh
Fuel oil .....	1 barrel	= 1,707 kwh
Natural gas .....	1 MCF	= 307.7 kwh
Other fuels .....	\$1	= 250 kwh

For "Undistributed" fuels costs, the conversion was based on the types of fuels used in 1958 or 1954 in the industry for which the undistributed costs were tabulated.

## 28. Output Per Man-hour

Statistics on output per man-hour are shown for most of the mineral industries, exclusive of the oil and gas extraction industries, as table 8 of the industry reports. For measuring output per man-hour, producing establishments were classified according to class intervals of output per man-hour, with output usually measured in physical units, such as tons of coal, representing the principal product of the industry.

Where feasible, the distribution by output per man-hour was shown separately for major types of operation since it differs significantly for open-pits as compared with underground mines, and for a mine only, a mine and plant, and a plant only. The output per man-hour distributions are also shown by geographic divisions and States for the bituminous coal industry.

Meaningful ratios of output per man-hour could not be computed when a significant portion of the production resulted from the work of proprietors or contractors, for whom man-hour figures are excluded, or where a significant portion of the man-hours of production workers was spent in activity other than mineral production. Such operations were included as "unclassified."

## 29. Ratio of Payroll to Value Added in Mining

General statistics are shown in Table 9 of each industry report for establishments classified on the basis of the ratio of payroll to value added in mining. In comparing labor costs with the other factors that contribute to value added it should be recognized, however, that value added as here computed includes many expenses for which no separate data were obtained in the 1958 minerals census, such as taxes, royalties, and interest paid; and nonpayroll benefits to employees.

## 30. Imputation of Data

Short forms were used to obtain information for about 15,000 small establishments. In these forms less detail was obtained on selected items, such as employment, cost of supplies, fuels, electricity, and on the status of wells and drilling costs for oil and gas operations. Certain items were omitted entirely, such as man-hours.

To obtain industry totals, estimates were prepared for detail omitted for such establishments on the basis of

information reported on long forms for similar operations.

Imputation of missing items was made feasible by use of the Census Bureau's high speed electronic computer. The procedures for imputation were of two types. For short form respondents, production and development workers and production and development worker wages were imputed from fixed ratios specified in advance from historical relationships of these items to total employees and total payroll. For other items to be imputed (for example, the breakdown of total capital expenditures to the 4 classes of expenditures) the imputation was made by a randomizing process in which eight similar establishments (same industry and same size class) were used in deriving the ratios needed for imputation of each establishment.

For industries characterized by large establishments, the percentage of imputation of general measures such as employment and payrolls, cost of materials, expenditures, and the like is very small; for industries in which small establishments account for a large portion of the totals, imputations may amount to 10 percent or more.

## 31. Confidentiality of Data for Individual Companies

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In the 1958 Census, as in 1954, preference was given to geographic regions and divisions over individual States in applying disclosure rules; similarly, States took precedence over counties. In tables showing industry detail, major industry group (2-digit) totals were given preference over industry group (3-digit) totals which, in turn, had precedence over individual (4-digit) industries.

Such order-of-precedence was used because (1) it was considered preferable to show regional data for an industry, even at the cost of withholding data for another (usually the least important) State in a region, rather than to show all publishable data for the individual States and group the disclosure States throughout the United States in an "all other" category as was frequently done in the 1939 and earlier censuses; and (2) by giving preference to industry group statistics over individual industries within each State, the extent to which individual statistics can be compared within the SIC industry classification framework is greatly increased.

For each State not shown separately in table 2 of the industry report, a footnote gives the number of establishments and either an employment range or the actual employment figure. The employment is shown in a range if the State had less than 1,000 employees, and the employment data represented the total for only one or two companies, or if the exact figure would permit deriving (by subtraction) the number of employees in other States represented by only one or two companies. In addition, figures for States with less than 50 employees, in general, are shown only in the footnote together with the number of establishments and employment in a range.

In the Area Volume, figures are not shown for a county or for an industry within a State if the publication of such statistics would disclose information for individual companies. In table 4 of that Volume, however, the



number of establishments, distributed by employment size, is shown for every county by 3-digit industry group.

For industries with few establishments or considerable geographic concentration, it has frequently been necessary to use geographic regions broader than the traditional nine census divisions, in order to show all establishments by some geographic grouping. For this purpose the following combinations of Census divisions have been used:

NORTHEAST	SOUTH
New England	South Atlantic
Middle Atlantic	East South Central
	West South Central
NORTH CENTRAL	WEST
East North Central	Mountain
West North Central	Pacific

### 32. Abbreviations

The following abbreviations and symbols occur frequently in tables and footnotes:

...	Zero
xxx	Not applicable
NA	Not available
n.e.c.	Not elsewhere classified
kwh	Kilowatt-hours
D	Withheld to avoid disclosing figures for individual companies
S.I.C.	Standard Industrial Classification

Other abbreviations, such as lb., and bbl., are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons."







# GENERAL SUMMARY

1-1







## MINING EMPLOYMENT IN THE UNITED STATES: 1860-1958

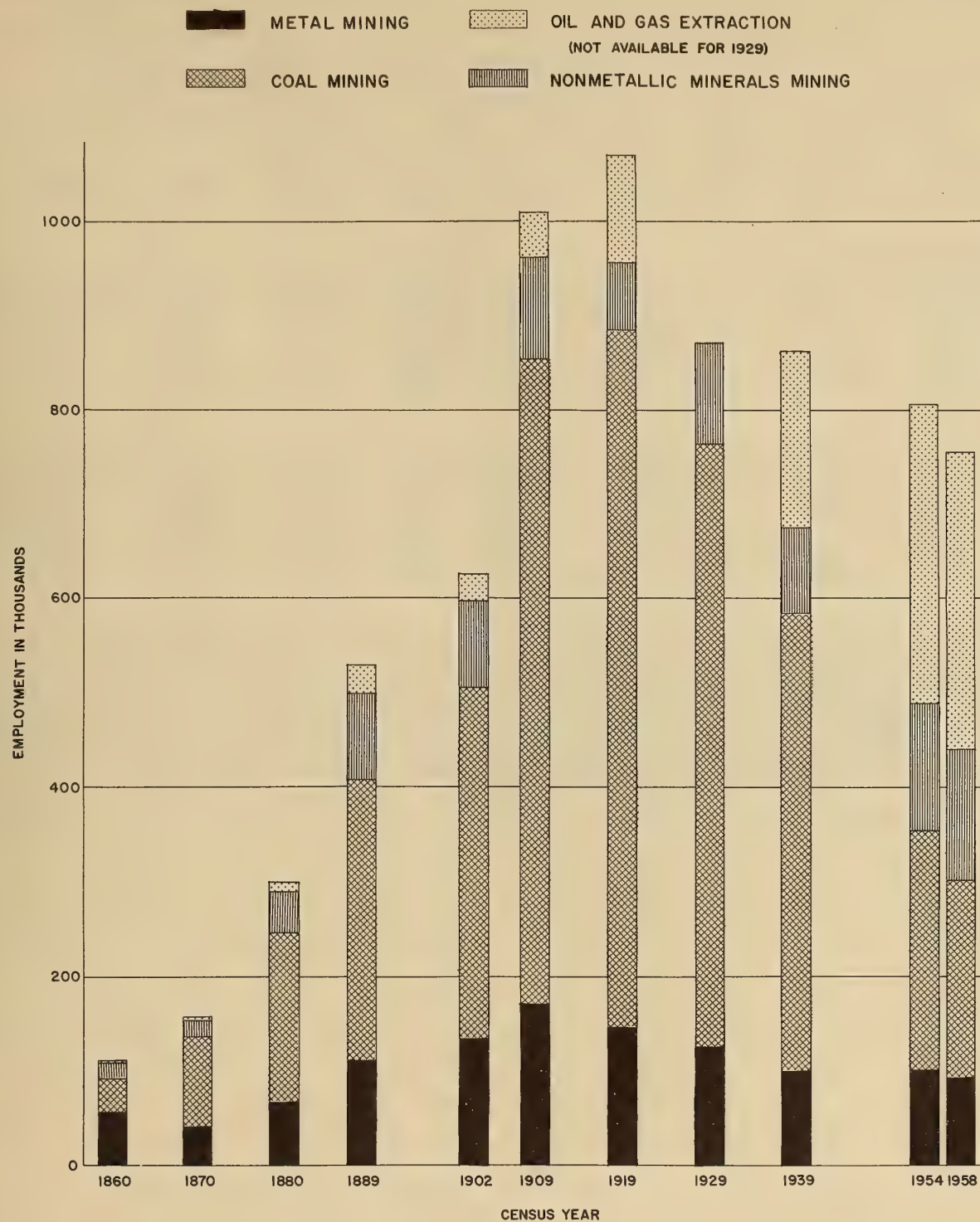




Table 1.—General Statistics for Mineral Operations

(For explanation of column captions see Introduction. For more detailed historical statistics, see table 1 of the General Summary)

Kind of operation and year	Establishments, number		All employees		Production and development workers		
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)
<b>Mineral industries only:</b>							
1 1958.....	36,218	6,029	732,632	3,740,288	564,281	1,077,864	2,616,273
2 1954.....	37,446	6,194	785,708	3,385,722	647,141	1,248,898	2,572,297
<b>Including operations in manufactures:</b>							
<b>All operations:</b>							
3 1958.....	37,784	6,279	753,537	3,826,692	584,012	1,116,774	2,695,588
4 1954 <sup>e</sup> .....	38,663	6,456	805,968	3,456,979	666,621	1,288,461	2,639,378
5 1939 <sup>7</sup> .....	<sup>b</sup> 25,023	(NA)	856,389	1,174,771	774,130	1,287,852	970,546
6 1919 <sup>9</sup> .....	21,997	(NA)	1,062,641	1,455,681	987,184	(NA)	1,304,409
7 1909 <sup>9</sup> .....	25,017	(NA)	1,027,247	655,584	980,772	(NA)	599,706
8 1902 <sup>11</sup> .....	<sup>b</sup> 52,088	(NA)	621,846	416,795	<sup>12</sup> 581,985	(NA)	376,218
9 1889.....	(NA)	(NA)	542,584	227,129	(NA)	(NA)	(NA)
10 1880.....	(NA)	(NA)	295,991	94,772	(NA)	(NA)	(NA)
<b>Excluding oil and gas extraction industries:</b>							
11 1958.....	19,283	3,589	440,737	2,127,272	370,077	676,672	1,684,909
12 1954.....	21,078	3,690	490,233	1,994,536	431,138	796,743	1,662,783
13 1939 <sup>7</sup> .....	<sup>b</sup> 13,794	(NA)	670,239	856,389	625,134	1,022,824	750,111
14 1929 <sup>13</sup> .....	10,996	(NA)	865,551	1,238,918	812,220	(NA)	1,099,895
15 1919 <sup>9</sup> .....	12,027	(NA)	951,030	1,286,405	893,525	(NA)	1,169,012
16 1909 <sup>9</sup> .....	16,815	(NA)	983,257	620,031	943,169	(NA)	571,612
17 1902 <sup>11</sup> .....	<sup>b</sup> 20,352	(NA)	594,288	395,476	<sup>12</sup> 559,547	(NA)	359,826
18 1889.....	21,807	(NA)	513,361	216,846	(NA)	(NA)	(NA)
19 1880.....	7,395	(NA)	284,514	87,593	(NA)	(NA)	(NA)

NA Not available.

<sup>1</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products.<sup>2</sup>Excludes data for the Uranium-Radium-Vanadium Ores Industry.<sup>3</sup>Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of liquids contained in such gas. See also footnote 2.<sup>4</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.<sup>5</sup>Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.<sup>6</sup>Excludes data for sand and gravel mining operations in manufacturing establishments.



## in the United States: 1958 and Earlier Years

report of the 1954 Census of Mineral Industries, Vol. I. For all years prior to 1939, excludes contract service operations)

Value added in mining  (\$1,000)	Selected expenses (\$1,000)				Value of net shipments and receipts <sup>1</sup>  (\$1,000)	Capital expenditures  (\$1,000)	Energy used (kwh equivalent)		
	Supplies, purchases for resale, and purchased fuels and electricity	Minerals received for preparation	Contract work	Purchased machinery installed			Total  (million)	Per production worker (1,000)	
13,381,494 <sup>2</sup> 11,546,418	2,879,669 2,345,883	1,756,454 <sup>3</sup> 708,809	1,854,770 1,826,738	1,015,257 1,213,108	16,360,273 <sup>2</sup> 14,211,462	2,797,810 2,723,756	404,935 372,524	718 576	1 2
13,680,973 <sup>2</sup> 11,740,054	<sup>4</sup> 2,938,586 <sup>4</sup> 2,390,951	1,758,380 <sup>3</sup> 710,321	<sup>4</sup> 1,855,630 <sup>4</sup> 1,827,372	<sup>5</sup> 1,017,571 <sup>5</sup> 1,214,881	16,715,395 <sup>2</sup> 14,450,664	<sup>5</sup> 2,800,314 <sup>5</sup> 2,725,665	<sup>5</sup> 405,414 <sup>5</sup> 373,126	694 560	3 4
2,765,396	438,190	(NA)	210,368	(NA)	3,413,954	(NA)	224,898	291	5
2,387,956	652,364	35,905	82,239	(NA)	3,122,559	(NA)	<sup>10</sup> 250,133	253	6
947,610	230,792	29,318	30,690	(NA)	1,209,092	(NA)	(NA)	(NA)	7
556,964	192,262	(NA)	23,332	(NA)	772,558	(NA)	(NA)	(NA)	8
334,040	85,551	(NA)	6,720	(NA)	426,311	(NA)	(NA)	(NA)	9
216,790	31,447	(NA)	3,730	(NA)	251,967	(NA)	(NA)	(NA)	10
4,645,684	<sup>4</sup> 1,353,201	765,994	<sup>4</sup> 296,300	<sup>5</sup> 363,339	6,059,363	<sup>5</sup> 610,579	<sup>5</sup> 95,101	257	11
<sup>2</sup> 4,066,360	<sup>4</sup> 1,090,775	<sup>2</sup> 337,406	<sup>4</sup> 269,513	<sup>5</sup> 351,676	<sup>2</sup> 5,220,719	<sup>5</sup> 499,349	<sup>5</sup> 88,030	204	12
1,429,122	317,651	(NA)	7,350	(NA)	1,754,123	(NA)	77,131	123	13
1,955,804	419,113	(NA)	17,914	86,733	2,392,831	(NA)	133,790	165	14
1,774,211	433,231	7,091	12,137	(NA)	2,219,579	(NA)	<sup>10</sup> 208,702	234	15
835,753	184,264	19,429	13,547	(NA)	1,033,564	(NA)	(NA)	(NA)	16
497,942	167,297	(NA)	5,054	(NA)	670,293	(NA)	(NA)	(NA)	17
318,722	62,861	(NA)	6,720	(NA)	388,303	(NA)	(NA)	(NA)	18
199,093	28,273	(NA)	(NA)	(NA)	227,366	(NA)	(NA)	(NA)	19

<sup>7</sup>Except for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing stone at such operations was \$7,913 thousand; this value has been included in the value of shipments and value added in mining.

<sup>8</sup>Represents number of mines and quarries, number of natural gas liquids plants, number of crude petroleum and natural gas establishments, and for mining services industries, number of operating companies.

<sup>9</sup>Excludes data for sand and gravel operations and for stone quarries operated as parts of cement and lime plants. In 1929, there were 957 such sand and gravel establishments, with products valued at \$102,312 thousand, and 252 such stone quarries, with products valued at \$31,032 thousand. See also footnote 13.

<sup>10</sup>Excludes purchased electricity. For "All operations" in 1939, the quantity of purchased electricity amounted to only 3 percent of the total kwh equivalent of energy used; and for "Excluding oil and gas extraction industries" in 1929, to only 4 percent.

<sup>11</sup>Includes data for lime plants producing lime valued at \$9,336 thousand. Excludes data for sand, gravel, common clay, and shale mining operations and for stone quarries at cement plants.

<sup>12</sup>Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

<sup>13</sup>Excludes data for common clay and shale operations. In 1939, there were 609 such mines with products valued at \$6,341 thousand.



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 2.—Detailed Statistics for Mineral Operations in

(For explanation of column

Ind. code	Industry group and industry	Number of operating companies	Establishments, number				Value of shipments and receipts (\$1,000)	Value of net shipments and receipts (\$1,000)	Value added in mining (\$1,000)	Number of persons engaged				Man-hours worked by production and development workers (1,000)	
			Total	With 20 or more employees	Including mining operations	Including preparation plants				Total	Production and development workers	Other employees	Proprietors and firm members		
													Total		Per-forming manual labor
	All mineral operations....	31,830	37,784	6,279	31,130	8,619	18,450,826	16,715,395	13,680,973	790,364	584,012	2169,525	336,827	316,042	1,116,774
	Mineral industries.....	30,731	36,218	6,029	29,564	8,597	18,089,834	16,360,273	13,381,494	769,459	564,281	168,351	36,827	16,042	1,077,864
	Included in manufactures.....	1,200	1,566	250	1,566	222	360,992	355,122	299,479	20,905	19,731	21,174	(NA)	(NA)	38,910
MAJOR INDUSTRY GROUPS															
10	Metal mining.....	1,906	2,233	383	2,056	602	1,835,845	1,571,191	1,187,327	94,349	71,402	21,099	1,848	1,190	136,750
11	Anthracite mining.....	1,157	1,248	159	1,065	188	325,128	234,000	164,489	24,676	20,047	2,766	1,863	1,298	30,867
12	Bituminous coal and lignite mining.....	6,300	6,930	1,371	6,561	1,831	2,423,361	2,091,428	1,609,964	195,017	163,533	24,173	7,311	3,785	267,699
13	Oil and gas extraction.....	15,363	18,501	2,689	12,716	593	11,636,887	10,656,032	9,035,289	333,185	213,935	98,865	20,385	6,918	440,102
14	Nonmetallic minerals mining.....	7,236	8,872	1,677	8,732	5,405	2,229,605	2,162,744	1,683,904	143,137	115,095	22,622	3,420	2,851	241,356
	Mineral industries.....	6,137	7,306	1,427	7,166	5,185	1,868,613	1,807,622	1,384,425	122,232	95,364	21,448	3,420	2,851	202,446
	Included in manufactures.....	1,200	1,566	250	1,566	222	360,992	355,122	299,479	20,905	19,731	21,174	(NA)	(NA)	38,910
INDUSTRIES															
10	Metal mining.....	1,906	2,233	383	2,056	602	1,835,845	1,571,191	1,187,327	94,349	71,402	21,099	1,848	1,190	136,750
1011	Iron ores.....	127	242	129	232	123	681,938	635,388	500,232	31,706	23,659	7,917	130	85	41,737
1021	Copper ores.....	112	148	38	140	36	457,644	374,428	266,485	27,746	20,898	6,744	104	69	41,021
1031	Lead and zinc ores.....	226	288	52	275	69	120,561	103,843	73,679	11,439	8,728	2,499	212	141	16,734
	Lead ores.....	194	211	26	204	42	75,603	68,144	48,023	7,057	5,460	1,423	174	108	10,397
	Zinc ores.....	42	77	26	71	27	44,958	35,699	25,656	4,382	3,268	1,076	38	33	6,337
104	Gold and silver ores.....	375	379	20	377	132	48,389	46,981	37,896	4,267	3,411	528	328	241	7,071
1042	Lode gold.....	242	244	12	242	51	29,506	28,234	22,659	2,780	2,234	352	194	145	4,602
1043	Placer gold.....	73	74	3	74	74	6,326	6,326	4,875	441	323	41	77	56	723
1044	Silver ores.....	60	61	5	61	7	12,557	12,421	10,364	1,046	854	135	57	40	1,746
1051	Bauxite.....	12	29	9	23	8	18,174	17,374	15,430	712	502	203	7	6	905
106	Ferroalloy ores.....	286	294	33	277	112	111,521	106,435	74,255	5,776	4,380	1,058	338	206	8,335
1062	Manganese ores.....	182	186	22	176	68	39,385	34,330	20,014	2,308	1,792	307	209	128	3,475
1064	Tungsten ores.....	32	32	4	28	18	14,430	14,430	8,164	657	508	130	19	9	977
1069	Ferroalloy ores, nec.....	75	76	7	73	26	57,706	57,675	46,077	2,811	2,080	621	110	69	3,883
108	Metal mining services.....	91	95	23	xxx	xxx	32,384	32,384	22,862	2,269	1,973	211	85	50	4,274
1081	Metal mining stripping services.....	29	29	6	xxx	xxx	10,270	10,270	8,472	584	505	48	31	22	1,013
1082	Metal mining services, nec.....	62	66	17	xxx	xxx	22,114	22,114	14,390	1,685	1,468	163	54	28	3,261
109	Miscellaneous metal ores.....	708	758	79	732	122	365,234	254,358	196,488	10,434	7,851	1,939	644	394	16,673
1092	Mercury ores.....	77	79	9	78	72	8,607	(D)	7,093	730	569	85	78	62	1,223
1093	Titanium ores.....	9	11	7	10	11	17,158	16,531	12,746	962	706	256	706	...	1,234
1094	Uranium-radium-vanadium ores.....	563	602	61	582	30	336,451	226,999	174,802	8,446	6,389	1,550	507	291	13,873
1099	Metallic ores, nec.....	66	66	2	62	9	3,018	(D)	1,847	296	187	50	59	41	3,443
11	Anthracite mining.....	1,157	1,248	159	1,065	188	325,128	234,000	164,489	24,676	20,047	2,766	1,863	1,298	30,867
1111	Anthracite.....	1,075	1,163	117	1,065	188	290,342	199,214	142,198	21,507	17,266	2,446	1,795	1,253	26,409
1112	Anthracite stripping services.....	78	79	42	xxx	xxx	34,463	34,463	22,027	3,114	2,737	317	60	42	4,395
1113	Anthracite mining services, nec.....	6	6	...	xxx	xxx	323	323	264	55	44	3	8	3	63
12	Bituminous coal and lignite mining.....	6,300	6,930	1,371	6,561	1,831	2,423,361	2,091,428	1,609,964	195,017	163,533	24,173	7,311	3,785	267,699
1211	Bituminous coal.....	6,102	6,715	1,342	6,503	1,807	2,390,677	2,058,794	1,585,541	192,747	161,711	23,965	7,071	3,629	264,308
1212	Lignite.....	53	58	8	58	24	11,035	11,035	9,309	567	437	73	57	38	844
1213	Coal stripping services, nec.....	137	137	19	xxx	xxx	19,162	19,130	13,409	1,461	1,180	120	161	101	2,106
1214	Coal mining services, nec.....	20	20	2	xxx	xxx	2,487	2,469	1,705	242	205	15	22	17	441
13	Oil and gas extraction.....	15,363	18,501	2,689	12,716	593	11,636,887	10,656,032	9,035,289	333,185	213,935	98,865	20,385	6,918	440,102
1311	Crude petroleum and natural gas.....	9,835	11,993	1,092	11,993	xxx	8,385,906	8,384,586	7,339,922	194,321	102,445	77,595	14,281	3,984	200,930
	Crude petroleum.....	8,764	10,603	974	10,603	xxx	7,809,898	7,808,607	6,823,328	177,139	92,358	72,365	12,416	3,658	181,246
	Natural gas.....	1,241	1,390	118	1,390	xxx	576,008	575,979	516,594	17,182	10,087	5,230	1,865	326	19,684
1321	Natural gas liquids.....	176	593	290	xxx	593	1,625,098	706,915	587,580	16,566	13,445	3,069	52	8	26,947
138	Oil and gas field services.....	5,682	5,915	1,307	723	xxx	1,625,883	1,564,331	1,107,787	122,298	98,045	18,201	6,052	2,926	212,225
1381	Drilling oil and gas wells.....	2,911	3,064	820	592	xxx	904,939	902,721	587,440	62,617	52,474	7,137	3,206	1,346	109,470
1382	Oil and gas exploration services.....	329	347	76	3	xxx	87,215	86,108	64,333	9,836	7,559	1,998	279	127	16,695
1389	Oil and gas field services, nec.....	2,456	2,504	411	128	xxx	633,729	575,702	455,994	49,845	38,212	9,066	2,567	1,453	86,060
14	Nonmetallic minerals mining.....	7,236	8,872	1,677	8,732	5,405	2,229,605	2,162,744	1,683,904	143,137	115,095	22,622	3,420	2,851	241,356
	Mineral industries.....	6,137	7,306	1,427	7,166	5,185	1,868,613	1,807,622	1,384,425	122,232	95,364	21,448	3,420	2,851	202,446
	Included in manufactures.....	1,200	1,566	250	1,566	222	360,992	355,122	299,479	20,905	19,731	21,174	(NA)	(NA)	38,910
1411	Dimension stone.....	504	557	119	557	231	89,461	85,446	67,131	12,519	10,825	1,425	269	175	20,679
	Mineral industry.....	506	555	119	555	231	89,461	85,446	67,131	12,519	10,825	1,425	269	175	20,679
	Included in manufactures.....	208	222	93	222	222	73,597	73,597	67,727	9,944	8,770	1,174	(NA)	(NA)	16,989
	Dimension limestone.....	120	124	27	124	60	20,417	19,592	16,386	2,688	2,330	301	57	38	4,201
	Mineral subindustry.....	65	68	8	68	40	4,174	4,174	3,741	491	491	92	57	38	879
	Included in manufactures.....	55	56	19	56	56	16,243	15,418	12,645	2,048	1,839	209	(NA)	(NA)	3,322
	Dimension granite.....	114	137	45	137	62	34,408	31,430	24,315	3,942	3,465	432	45	24	6,731
	Mineral subindustry.....	63	76	9	76	1	5,577	5,517	4,085	785	681	59	45	24	1,277
	Included in manufactures.....	56	61	36	61	61	28,831	25,913	20,230	3,157	2,784	373	(NA)	(NA)	5,454

See footnotes at end of table.



## GENERAL SUMMARY

1-7

the United States, by Industry Group and Industry: 1958

captions see Introduction.)

Principal expenses designated below (\$1,000)										Capital expenditures (\$1,000)					Energy used (million kwh equiv- alent)	Ind. code
Total	Wages and salaries		Minerals received for prepara- tion	Supplies and purchases for resale	Purchased fuels	Purchased elec- tricity	Contract work	Purchased machinery installed (\$1,000)	Total	Develop- ment and explora- tion of mineral property	Prepara- tion plant and other construc- tion	New machinery and equipment	Used plant and equip- ment			
	Production and development workers	Other employees														
10,379,288	2,695,588	<sup>2</sup> 1,131,104	1,758,380	<sup>4</sup> 2,460,250	<sup>4</sup> 275,732	<sup>4</sup> 202,604	<sup>4</sup> 1,855,630	<sup>2</sup> 1,017,571	<sup>2</sup> 2,800,314	<sup>2</sup> 1,140,198	<sup>2</sup> 466,585	<sup>2</sup> 1,095,225	<sup>2</sup> 98,306	<sup>2</sup> 405,414		
10,231,181	2,616,273	1,124,015	1,756,454	2,403,671	274,943	201,055	1,854,770	1,015,257	2,797,810	1,140,198	466,378	1,093,140	98,094	404,935		
148,107	79,315	<sup>2</sup> 27,089	1,926	<sup>4</sup> 56,579	<sup>4</sup> 789	<sup>4</sup> 1,549	<sup>4</sup> 860	<sup>2</sup> 2,314	<sup>2</sup> 2,504	(NA)	<sup>2</sup> 207	<sup>2</sup> 2,085	<sup>2</sup> 212	<sup>2</sup> 479		
1,281,064	356,209	131,577	303,251	282,406	37,986	37,230	132,405	69,531	214,291	44,228	97,647	65,298	7,118	27,383	10	
260,593	79,425	13,971	85,375	29,930	4,062	7,325	40,505	10,033	16,591	3,818	1,879	9,683	1,211	3,881	11	
1,762,421	760,364	152,420	325,224	373,569	23,536	56,676	70,632	151,955	188,195	9,058	66,663	101,219	11,255	14,903	12	
5,836,521	1,010,679	688,741	992,386	1,401,400	130,632	53,333	1,559,330	654,232	2,189,735	1,075,313	259,739	796,001	58,682	310,313	13	
1,238,689	488,911	<sup>2</sup> 144,595	52,144	<sup>4</sup> 72,945	<sup>4</sup> 79,496	<sup>4</sup> 48,040	<sup>4</sup> 52,758	<sup>2</sup> 131,820	<sup>2</sup> 191,502	<sup>2</sup> 7,781	<sup>2</sup> 40,657	<sup>2</sup> 123,024	<sup>2</sup> 20,040	<sup>2</sup> 48,934		
1,090,582	409,596	137,506	50,218	<sup>4</sup> 72,945	<sup>4</sup> 78,707	<sup>4</sup> 46,491	<sup>4</sup> 51,898	129,506	188,998	7,781	40,450	120,939	19,828	48,455	14	
148,107	79,315	<sup>2</sup> 27,089	1,926	<sup>4</sup> 56,579	<sup>4</sup> 789	<sup>4</sup> 1,549	<sup>4</sup> 860	<sup>2</sup> 2,314	<sup>2</sup> 2,504	(NA)	<sup>2</sup> 207	<sup>2</sup> 2,085	<sup>2</sup> 212	<sup>2</sup> 479		
1,281,064	356,209	131,577	303,251	282,406	37,986	37,230	132,405	69,531	214,291	44,228	97,647	65,298	7,118	27,383	10	
380,326	120,618	53,769	64,662	80,320	17,447	14,000	29,510	18,516	42,749	10,913	11,944	18,675	1,217	11,106	1011	
360,343	106,357	37,144	89,011	86,587	9,744	9,476	22,024	19,191	44,874	9,720	14,835	16,534	3,785	10,239	1021	
106,978	39,001	15,396	21,517	21,185	1,058	5,869	2,952	2,920	8,619	4,160	1,845	2,502	112	1,153	1031	
64,205	24,843	8,916	11,353	12,996	609	2,108	2,108	1,630	4,496	2,295	1,002	1,113	86	659		
42,773	14,158	6,480	10,164	8,189	449	2,489	844	1,290	4,123	1,865	843	1,389	26	494		
32,533	17,064	2,930	1,090	8,258	868	1,658	665	1,178	3,224	1,181	962	766	315	528	104	
20,258	10,709	1,738	( <sup>5</sup> )	<sup>5</sup> 5,917	577	890	427	764	1,788	470	503	535	220	347	1042	
3,470	1,515	275	xxx	1,070	94	431	85	113	340	65	91	115	69	71	1043	
8,805	4,840	917	( <sup>5</sup> )	<sup>5</sup> 2,361	197	337	153	301	1,156	646	368	116	26	110	1044	
6,275	2,290	1,316	1,066	728	258	172	445	1,483	1,408	24	107	1,247	30	151	1051	
68,364	19,455	7,256	15,370	15,817	1,671	2,263	6,532	2,158	6,545	1,303	2,655	2,094	493	922	106	
29,512	7,244	1,792	10,675	5,216	1,101	677	2,807	1,085	2,190	469	253	1,113	355	582	1062	
9,197	1,993	914	4,664	1,385	17	217	7	98	122	17	32	56	17	25	1064	
29,655	10,218	4,550	31	9,216	553	1,369	3,718	975	4,233	817	2,370	925	121	315	1069	
21,517	10,624	1,473	xxx	7,657	1,271	60	432	1,365	1,263	xxx	34	1,155	74	340	108	
4,312	2,357	315	xxx	972	494	51	123	1,013	855	xxx	( <sup>6</sup> )	805	<sup>6</sup> 50	143	1081	
17,205	8,267	1,158	xxx	6,685	777	9	309	352	408	xxx	( <sup>6</sup> )	350	<sup>6</sup> 58	197	1082	
304,728	40,800	12,293	110,535	61,854	5,669	3,732	69,845	22,720	105,609	16,927	65,265	22,325	1,092	2,944	109	
5,118	2,627	485	( <sup>6</sup> )	<sup>5</sup> 1,462	387	102	55	370	862	290	131	352	89	129	1092	
9,560	2,882	1,614	( <sup>5</sup> )	<sup>5</sup> 2,232	614	1,077	121	1,831	2,483	39	329	2,115	...	426	1093	
287,544	34,439	9,983	109,432	<sup>5</sup> 7,027	4,325	2,505	69,613	20,092	101,365	16,499	64,578	19,660	828	2,344	1094	
2,506	852	211	( <sup>6</sup> )	<sup>5</sup> 1,196	143	308	56	427	699	99	227	198	175	45	1099	
260,593	79,425	13,971	85,375	29,930	4,062	7,325	40,505	10,033	16,591	3,818	1,879	9,683	1,211	3,881	11	
234,104	67,449	12,024	85,375	20,777	2,346	6,814	39,319	6,317	12,804	3,818	1,811	6,333	842	3,347	1111	
26,223	11,780	1,537	xxx	9,101	1,708	511	1,186	3,615	3,685	xxx	68	3,549	268	526	1112	
266	196	10	xxx	32	8	...	...	101	102	xxx	...	1	101	8	1113	
1,762,421	760,364	152,420	325,224	373,569	23,536	56,676	70,632	151,955	188,195	9,058	66,663	101,219	11,255	14,903	12	
1,744,369	751,584	151,175	325,224	368,722	21,628	56,309	69,727	147,493	183,967	8,984	66,462	97,783	10,738	14,303	1211	
4,329	2,261	432	...	1,133	210	260	33	1,522	1,432	74	69	1,236	53	111	1212	
11,910	5,615	758	xxx	3,003	1,612	107	815	2,816	2,600	xxx	130	2,006	464	467	1213	
1,813	904	55	xxx	711	86	...	57	124	196	xxx	2	194	...	22	1214	
5,836,521	1,010,679	688,741	992,386	1,401,400	130,632	53,333	1,559,330	654,232	2,189,735	1,075,313	259,739	796,001	58,682	310,313	13	
3,545,642	497,571	544,615	xxx	951,911	56,204	45,770	1,449,571	486,021	1,943,493	1,062,206	197,674	646,389	37,224	137,440	1311	
3,216,495	452,947	512,911	xxx	832,555	53,083	44,627	1,320,372	443,166	1,707,233	935,699	150,227	586,948	34,359	128,265		
329,147	44,624	31,704	xxx	119,356	3,121	1,143	1,143	42,855	236,260	126,507	47,447	59,441	2,865	9,175		
1,188,931	75,739	20,580	992,386	46,026	4,521	4,696	44,983	39,836	94,930	xxx	53,566	40,441	923	142,130	1321	
1,101,948	437,369	123,546	xxx	403,463	69,327	2,867	64,776	128,375	151,312	13,107	8,499	109,171	20,535	30,743	138	
624,303	239,328	49,915	xxx	241,491	40,942	1,261	51,366	84,437	102,018	12,953	3,322	68,149	17,594	22,617	1381	
67,518	31,115	12,534	xxx	16,396	3,535	295	3,643	6,075	7,082	...	554	6,207	321	949	1382	
410,127	166,926	61,097	xxx	145,576	25,450	1,311	9,767	37,843	42,212	154	4,623	34,815	2,620	7,177	1389	
1,238,689	488,911	<sup>2</sup> 144,595	52,144	<sup>4</sup> 72,945	<sup>4</sup> 79,496	<sup>4</sup> 48,040	<sup>4</sup> 52,758	<sup>2</sup> 131,820	<sup>2</sup> 191,502	<sup>2</sup> 7,781	<sup>2</sup> 40,657	<sup>2</sup> 123,024	<sup>2</sup> 20,040	<sup>2</sup> 48,934		
1,090,582	409,596	137,506	50,218	<sup>4</sup> 72,945	<sup>4</sup> 78,707	<sup>4</sup> 46,491	<sup>4</sup> 51,898	129,506	188,998	7,781	40,450	120,939	19,828	48,455	14	
148,107	79,315	<sup>2</sup> 27,089	1,926	<sup>4</sup> 56,579	<sup>4</sup> 789	<sup>4</sup> 1,549	<sup>4</sup> 860	<sup>2</sup> 2,314	<sup>2</sup> 2,504	(NA)	<sup>2</sup> 207	<sup>2</sup> 2,085	<sup>2</sup> 212	<sup>2</sup> 479		
68,101	36,768	8,143	1,926	16,860	1,193	1,971	1,240	2,845	3,705	352	566	2,787	300	614		
10,579	6,067	1,054	...	2,252	404	422	380	531	1,201	52	359	702	88	135	1411	
57,522	30,701	7,089	1,926	14,608	789	1,549	860	2,314	2,504	(NA)	207	2,085	212	479		
15,001	8,837	1,902	130	3,051	276	406	399	846	1,077	315	90	855	117	169		
2,761	1,592	528	...	385	87	78	91	294	502	15	70	388	29	33		
12,240	7,245	1,374	130	2,666	189	328	308	552	575	(NA)	20	467	88	136		
25,852	12,645	2,978	478	8,060	485	896	310	582	718	332	78	554	54	247		
3,908	2,046	242	...	1,293	115	171	41									



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 2.—Detailed Statistics for Mineral Operations in the

(For explanation of column

Ind. code	Industry group and industry	Number of operating companies	Establishments, number				Value of shipments and receipts (\$1,000)	Value of net shipments and receipts (\$1,000)	Value added in mining (\$1,000)	Number of persons engaged				Man-hours worked by production and development workers (1,000)	
			Total	With 20 or more employees	Including mining operations	Including preparation plants				Total	Production and development workers	Other employees	Proprietors and firm members		
													Total		Per-forming manual labor
INDUSTRIES--Continued															
	Dimension stone--Continued														
	Dimension stone, nec.....	272	296	47	296	109	34,636	32,424	26,430	5,889	5,030	692	<sup>3</sup> 167	<sup>3</sup> 113	9,747
	Mineral subindustry.....	178	191	9	191	4	6,113	6,028	5,250	1,150	883	100	167	113	1,531
	Included in manufactures....	99	105	38	105	105	28,523	26,396	21,180	4,739	4,147	592	(NA)	(NA)	8,213
1421	Crushed and broken stone.....	1,680	2,176	741	2,152	1,813	<sup>1</sup> 754,809	<sup>1</sup> 741,038	562,435	47,708	39,846	<sup>2</sup> 6,539	<sup>3</sup> 1,323	<sup>3</sup> 611	85,594
	Mineral industry.....	1,597	1,957	644	1,933	1,813	616,076	602,305	445,788	42,727	34,865	6,539	1,323	611	75,632
	Included in manufactures.....	111	219	97	219	xxx	<sup>1</sup> 138,733	<sup>1</sup> 138,733	116,647	4,981	4,981	(NA)	(NA)	(NA)	9,962
	Crushed and broken limestone..	1,252	1,656	581	1,639	1,387	<sup>1</sup> 596,356	<sup>1</sup> 584,179	449,736	37,396	31,272	<sup>2</sup> 5,036	<sup>3</sup> 1,088	<sup>3</sup> 499	66,912
	Mineral subindustry.....	1,176	1,458	484	1,441	1,387	459,037	446,860	334,368	32,496	26,372	5,036	1,088	499	57,112
	Included in manufactures....	104	198	97	198	xxx	<sup>1</sup> 137,319	<sup>1</sup> 137,319	115,368	4,900	4,900	(NA)	(NA)	(NA)	9,800
	Crushed and broken granite, mineral subindustry.....	87	121	61	121	108	49,596	49,391	33,493	3,341	2,906	403	32	14	6,442
	Crushed and broken stone, nec.	352	399	99	392	318	<sup>1</sup> 108,857	<sup>1</sup> 107,468	79,206	6,971	5,668	<sup>2</sup> 1,100	<sup>3</sup> 203	<sup>3</sup> 98	12,240
	Mineral subindustry.....	354	378	99	371	318	107,443	106,054	77,927	6,890	5,587	1,100	203	98	12,078
	Included in manufactures....	18	21	...	21	xxx	<sup>1</sup> 1,414	<sup>1</sup> 1,414	1,279	81	81	(NA)	(NA)	(NA)	162
1441	Sand and gravel.....	3,690	4,084	509	4,071	2,758	<sup>1</sup> 631,485	<sup>1</sup> 622,885	497,864	42,546	33,171	<sup>2</sup> 6,418	<sup>3</sup> 2,957	<sup>3</sup> 1,592	71,562
	Mineral industry.....	3,550	3,703	482	3,690	2,758	560,806	552,206	434,468	40,005	30,630	6,418	2,957	1,592	66,480
	Included in manufactures.....	371	581	27	581	xxx	<sup>1</sup> 70,679	<sup>1</sup> 70,679	63,396	2,541	2,541	(NA)	(NA)	(NA)	5,082
	Common sand and gravel.....	3,553	3,915	474	3,905	2,618	<sup>1</sup> 586,769	<sup>1</sup> 578,335	465,096	39,574	30,809	<sup>2</sup> 5,896	<sup>3</sup> 2,869	<sup>3</sup> 1,536	66,815
	Mineral subindustry.....	3,534	3,534	447	3,524	2,618	516,090	508,256	401,700	37,033	28,268	5,896	2,869	1,536	61,733
	Included in manufactures....	371	581	27	581	xxx	<sup>1</sup> 70,679	<sup>1</sup> 70,679	63,396	2,541	2,541	(NA)	(NA)	(NA)	5,082
	Glass sand.....	39	45	19	42	39	28,343	(D)	20,672	1,642	1,339	289	14	8	2,833
	Molding sand.....	98	124	16	124	101	16,373	(D)	12,096	1,330	1,023	233	74	48	1,914
145	Clay and related minerals.....	888	1,202	129	1,202	183	<sup>1</sup> 173,597	<sup>1</sup> 172,551	128,954	11,619	9,872	<sup>2</sup> 1,475	<sup>3</sup> 272	<sup>3</sup> 146	20,044
	Mineral industries.....	396	490	112	490	183	122,738	121,692	87,368	9,045	7,298	<sup>2</sup> 1,475	272	146	14,897
	Included in manufactures.....	520	712	17	712	xxx	<sup>1</sup> 50,859	<sup>1</sup> 50,859	41,586	2,574	2,574	(NA)	(NA)	(NA)	5,147
1452	Bentonite.....	29	41	15	41	25	16,843	(D)	12,220	709	543	145	21	6	1,140
1453	Fire clay.....	235	317	28	317	31	<sup>1</sup> 32,944	<sup>1</sup> 32,759	25,848	2,400	2,084	<sup>2</sup> 194	<sup>3</sup> 122	<sup>3</sup> 59	3,824
	Mineral industry.....	136	182	19	182	31	18,606	18,421	14,540	1,595	1,279	194	122	59	2,214
	Included in manufactures....	104	135	9	135	xxx	<sup>1</sup> 14,338	<sup>1</sup> 14,338	11,308	805	805	(NA)	(NA)	(NA)	1,610
1454	Fuller's earth.....	13	14	6	14	11	8,692	(D)	5,955	659	527	125	7	...	1,145
1455	Kaolin and ball clay.....	41	53	26	53	43	42,434	(D)	30,990	3,412	2,722	672	18	6	5,675
1456	Feldspar.....	64	74	10	74	12	6,889	6,433	4,551	619	496	71	52	44	1,028
1457	Magnesite and brucite.....	4	4	3	4	3	7,270	7,270	5,978	338	267	70	1	1	428
1459	Clay and related minerals, nec.....	525	699	41	699	58	<sup>1</sup> 58,525	(D)	43,432	3,482	3,233	<sup>2</sup> 198	<sup>3</sup> 51	<sup>3</sup> 30	6,804
	Mineral industry.....	109	122	33	122	58	22,004	(D)	13,154	1,713	1,464	198	51	30	3,267
	Included in manufactures....	439	577	8	577	xxx	<sup>1</sup> 36,521	<sup>1</sup> 36,521	30,278	1,769	1,769	(NA)	(NA)	(NA)	3,537
147	Chemical and fertilizer minerals	207	271	102	243	170	464,612	427,472	335,153	20,699	14,832	5,724	143	66	30,405
1472	Barite.....	41	53	8	52	35	13,768	(D)	11,321	962	781	148	33	19	1,588
1473	Fluorspar.....	50	55	11	51	27	19,977	16,639	12,653	1,301	1,044	191	66	27	2,105
1474	Potash, soda, borate minerals.	19	21	14	21	17	141,115	(D)	111,082	6,664	4,590	2,071	3	...	9,212
1475	Phosphate rock.....	43	65	37	52	44	132,094	99,109	64,375	5,420	3,955	1,438	27	14	8,255
1476	Rock salt.....	18	22	12	22	21	41,813	(D)	34,073	1,391	1,602	382	7	4	3,508
1477	Sulfur.....	14	24	13	24	5	106,202	106,202	94,063	3,679	2,503	1,374	2	...	4,644
1479	Chemical-fertilizer mining, nec.....	28	31	7	21	21	9,643	(D)	7,586	682	557	120	5	2	1,093
148	Nonmetallic minerals services...	74	75	6	xxx	xxx	7,934	7,934	6,217	1,188	1,037	72	79	44	1,893
1481	Nonmetallic minerals stripping	46	47	3	xxx	xxx	4,787	4,787	3,780	676	588	38	50	29	1,069
1482	Nonmetallic services, nec.....	28	28	3	xxx	xxx	3,147	3,147	2,437	512	449	34	29	15	824
149	Miscellaneous minerals, nec.....	439	507	71	507	250	<sup>1</sup> 107,707	<sup>1</sup> 107,418	86,150	6,858	5,512	<sup>2</sup> 969	<sup>3</sup> 377	<sup>3</sup> 217	11,179
	Mineral industries.....	432	475	55	475	250	80,294	80,294	62,555	5,993	4,647	969	377	217	9,449
	Included in manufactures.....	8	32	16	32	xxx	<sup>1</sup> 27,124	<sup>1</sup> 27,124	23,795	865	865	(NA)	(NA)	(NA)	1,730
1492	Gypsum.....	36	64	20	64	19	<sup>1</sup> 34,172	<sup>1</sup> 34,172	29,753	1,291	1,219	<sup>2</sup> 52	<sup>3</sup> 20	<sup>3</sup> 10	2,506
	Mineral industry.....	29	32	4	32	19	7,048	7,048	5,958	426	354	52	20	10	776
	Included in manufactures....	8	32	16	32	xxx	<sup>1</sup> 27,124	<sup>1</sup> 27,124	23,795	865	865	(NA)	(NA)	(NA)	1,730
1493	Mica.....	142	149	8	149	56	6,221	6,216	4,974	916	649	78	189	115	1,204
1494	Native asphalt and bitumens...	8	10	5	10	9	8,041	8,041	5,954	468	367	97	4	...	732
1495	Pumice and pumicite.....	63	64	2	64	28	5,002	5,002	4,058	350	271	45	34	12	409
1496	Talc, soapstone, pyrophyllite.	43	64	12	64	23	14,908	(D)	11,755	1,328	1,123	171	34	17	2,289
1497	Natural abrasives, except sand	20	20	4	20	16	3,373	3,373	2,648	245	204	25	16	8	408
1498	Peat.....	80	81	3	81	60	4,379	4,370	3,640	448	335	54	59	47	613
1499	Nonmetallic minerals, nec.....	47	55	17	55	39	31,611	(D)	23,368	1,812	1,344	447	21	8	3,018

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>2</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products.



## GENERAL SUMMARY

1-9

## United States, by Industry Group and Industry: 1958-Continued

(captions see Introduction)

Principal expenses designated below (\$1,000)									Capital expenditures (\$1,000)						Energy used (million kwh equiv- alent)	Ind. code
Total	Wages and salaries		Minerals received for prepara- tion	Supplies and purchases for resale	Purchased fuels	Purchased elec- tricity	Contract work	Purchased machinery installed  (\$1,000)	Total	Develop- ment and explora- tion of mineral property	Prepara- tion plant and other construc- tion	New machinery and equipment	Used plant and equip- ment			
	Production and development workers	Other employees												(million kwh equiv- alent)		
27,248 3,910 23,338	15,286 2,429 12,857	3,263 284 2,979	1,318 ... 1,318	5,749 574 5,175	432 202 230	669 173 496	531 248 283	1,417 148 1,269	1,910 482 1,428	25 5 (NA)	398 238 160	1,378 192 1,186	129 47 82	198 64 134	1421	
421,398 376,171 45,227	170,407 147,266 23,141	241,135 41,135 (NA)	2,185 2,185 xxx	415,108 133,022 22,086	21,809 21,809 (*)	14,513 14,513 (*)	16,241 16,241 (*)	51,238 51,238 (NA)	268,720 68,720 (NA)	31,959 1,959 (NA)	216,161 16,161 (NA)	243,772 43,772 (NA)	26,828 6,828 (NA)	28,307 8,307 (NA)		1441
328,283 283,467 44,816	134,120 111,255 22,865	232,103 32,103 (NA)	2,056 2,056 xxx	4119,126 97,175 21,951	17,442 17,442 (*)	10,881 10,881 (*)	12,555 12,555 (*)	238,894 38,894 (NA)	254,334 54,334 (NA)	31,752 1,752 (NA)	212,411 12,411 (NA)	234,801 34,801 (NA)	25,370 5,370 (NA)	26,878 6,878 (NA)		
27,943 65,172 64,761 411	10,771 25,516 25,240 276	2,204 26,828 6,828 (NA)	... 129 129 xxx	12,351 23,631 25,496 4135	674 3,693 3,693 (*)	1,309 42,323 2,323 (*)	634 43,052 3,052 (*)	5,838 26,506 6,506 (NA)	4,703 29,683 9,683 (NA)	61 3146 146 (NA)	948 22,802 2,802 (NA)	3,310 25,661 5,661 (NA)	384 21,074 1,074 (NA)	384 21,045 1,045 (NA)	1452	
335,059 316,757 18,302	145,460 134,441 11,019	237,885 37,885 (NA)	870 870 xxx	496,036 88,753 47,283	425,342 25,342 (*)	14,099 14,099 (*)	15,367 15,367 (*)	238,469 38,469 (NA)	256,562 56,562 (NA)	31,842 1,842 (NA)	214,894 14,894 (NA)	228,975 28,975 (NA)	210,851 10,851 (NA)	28,596 8,596 (NA)		1453
309,717 291,415 18,302	135,821 124,802 11,019	234,582 34,582 (NA)	793 793 xxx	488,293 81,010 47,283	423,085 23,085 (*)	12,471 12,471 (*)	14,672 14,672 (*)	235,177 35,177 (NA)	252,818 52,818 (NA)	31,808 1,808 (NA)	213,569 13,569 (NA)	226,634 26,634 (NA)	210,807 10,807 (NA)	27,249 7,249 (NA)		
15,511 9,831	5,730 3,909	1,767 1,536	(5) (5)	55,320 52,500	1,265 992	1,084 544	145 550	2,360 932	2,703 1,041	19 15	1,012 313	1,696 685	16 28	966 381	1455	
95,324 75,380 19,944	37,551 26,880 10,671	29,277 9,277 (NA)	874 874 xxx	430,568 21,295 49,273	49,605 9,605 (*)	43,585 3,585 (*)	43,864 3,864 (*)	29,344 9,344 (NA)	213,197 13,197 (NA)	3753 753 (NA)	23,485 3,485 (NA)	28,498 8,498 (NA)	2461 461 (NA)	25,477 5,477 (NA)		1456
7,582	1,996	889	(5)	52,406	720	390	1,181	1,009	1,083	125	4	946	8	576		
17,145 10,498 6,647	8,606 4,989 3,617	21,031 1,031 (NA)	176 176 xxx	45,148 2,118 45,050	41,090 264 (*)	4830 830 (*)	21,695 1,695 (NA)	22,107 2,107 (NA)	2,107 2,107 (NA)	3189 189 (NA)	2153 153 (NA)	21,562 1,562 (NA)	2203 203 (NA)	382 (NA)	1458	
5,432 26,696 4,306 4,092	1,673 9,719 1,515 1,386	726 4,295 404 539	(5) (5) 456 ...	51,754 58,739 1,055 1,010	748 2,157 324 794	270 1,194 396 220	281 592 1,556 143	263 2,913 1,277 114	579 4,151 1,306 989	25 330 22 ...	231 1,053 208 934	321 2,676 1,053 55	2 92 23 ...	323 1,433 127 391		1459
30,051 16,754 13,297	12,656 5,602 7,054	21,393 1,593 (NA)	... ... xxx	410,698 4,455 46,243	43,772 3,772 (*)	4851 851 (*)	4681 681 (*)	22,073 2,073 (NA)	22,982 2,982 (NA)	362 62 (NA)	2902 902 (NA)	21,885 1,885 (NA)	2133 133 (NA)	22,245 (NA)		
261,192 6,571 13,742 75,557 94,536 19,218 45,914	74,527 2,698 4,336 26,746 17,185 7,337 15,267	41,449 704 1,280 14,321 10,025 3,059 11,503	46,019 (5) 3,338 (5) 41,864 (5) ... ...	55,790 1,975 2,504 22,643 12,776 57,363 7,363	18,432 281 563 7,144 3,562 311 6,440	11,641 554 594 3,026 6,729 455 45	13,334 381 764 1,677 2,395 93 7,496	23,373 251 764 1,696 6,956 5,702 2,125 7,077	39,130 973 1,566 11,393 5,702 2,607 16,282	2,139 204 627 608 5,702 426 9 (D)	3,655 426 160 1,557 307 480 (D)	32,684 307 702 8,994 4,916 2,118 (D)	692 36 77 234 53 ... (D)	24,464 198 379 8,452 3,120 416 11,819	1479	
5,654 5,387 3,021 2,366	2,358 3,038 1,636 1,402	757 484 271 213	(5) xxx xxx xxx	52,005 1,289 686 603	131 379 259 120	238 51 32 19	165 146 137 9	125 700 484 216	607 848 591 257	(D) xxx xxx xxx	(D) 74 22 52	(D) 705 506 199	(D) 69 63 6	80 105 73 32		149
52,228 45,116 7,112	21,160 17,377 3,783	26,022 6,022 (NA)	270 270 xxx	417,294 13,965 43,329	42,736 2,736 (*)	42,180 2,180 (*)	42,566 2,566 (*)	25,851 5,851 (NA)	29,340 9,340 (NA)	31,036 1,036 (NA)	21,822 1,822 (NA)	35,603 5,603 (NA)	2879 879 (NA)	21,371 (NA)		
10,249 3,137 7,112	5,264 1,481 3,783	2324 324 (NA)	... ... xxx	44,304 975 43,329	4166 166 (*)	4118 118 (*)	473 73 (*)	2578 578 (NA)	2820 820 (NA)	328 28 (NA)	269 69 (NA)	3682 682 (NA)	241 41 (NA)	274 74 (NA)	1495	
3,848 4,558 2,560 8,862 1,793 2,386 18,172	1,709 1,398 907 4,157 801 974 5,950	298 867 196 1,163 206 308 2,660	... ... ... ... ... ... ...	995 1,538 760 52,428 513 762 56,264	336 270 68 291 181 174 1,239	206 270 68 547 22 34 915	304 406 159 276 70 134 1,144	577 517 267 509 88 446 2,869	1,171 723 580 898 149 811 4,188	315 175 54 128 169 137 198	218 19 212 462 106 111 982	434 510 205 482 106 455 2,729	204 19 109 119 ... 108 279	115 50 111 153 73 79 716		1497

<sup>2</sup>Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.<sup>3</sup>Excludes data for mining operations in manufacturing establishments.<sup>4</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of purchased fuels, purchased electricity, and contract work is included with the cost of supplies and purchases for resale.<sup>5</sup>The cost of minerals received for preparation is included with the cost of supplies and purchases for resale.<sup>6</sup>Data for preparation plant and other construction are included with those for used plant and equipment.



Table 3.-Selected Statistics for Mineral

(For explanation of column

	Division and State	Establishments, number				Value of shipments and receipts <sup>1</sup> (\$1,000)	Value added in mining (\$1,000)	Number of employees			Man-hours worked by production and development workers (1,000)
		Total	With 20 or more employees	Including mining operations	Including preparation plants			Total	Production and development workers	Other employees <sup>2</sup>	
1	United States, total.....	37,784	6,279	31,130	8,619	18,450,826	13,680,973	753,537	584,012	169,525	1,116,774
2	Mineral industries.....	36,218	6,029	29,564	8,397	18,089,834	13,381,494	732,632	564,281	168,351	1,077,864
3	Included in manufactures.....	1,566	250	1,566	222	360,992	299,479	20,905	19,731	1,174	38,910
	MINERAL INDUSTRIES										
4	New England.....	344	39	339	217	44,034	32,301	3,616	2,745	871	5,744
5	Maine.....	55	2	54	27	2,826	2,104	301	266	35	547
6	New Hampshire.....	38	3	37	25	2,866	1,977	234	200	34	413
7	Vermont.....	41	7	40	25	9,575	6,823	790	674	116	1,350
8	Massachusetts.....	111	12	110	66	14,151	10,624	1,285	824	461	1,750
9	Rhode Island.....	18	3	18	13	1,630	1,377	147	117	30	218
10	Connecticut.....	81	12	80	61	12,986	9,396	859	664	195	1,466
11	Middle Atlantic.....	4,500	636	4,030	1,165	1,160,015	733,341	87,398	72,795	14,603	124,374
12	New York.....	543	69	502	217	147,603	115,960	9,657	6,405	3,252	13,626
13	New Jersey.....	135	42	133	103	48,651	37,638	3,748	2,812	936	5,593
14	Pennsylvania.....	3,822	525	3,395	845	963,761	579,743	73,993	63,578	10,415	105,155
15	East North Central.....	4,313	659	3,792	1,634	1,324,808	936,363	74,732	60,937	13,795	114,357
16	Ohio.....	1,436	187	1,287	523	286,321	191,336	20,790	15,907	4,883	29,764
17	Indiana.....	720	95	648	230	136,511	102,989	8,768	7,076	1,692	13,069
18	Illinois.....	1,323	253	1,096	406	638,774	452,357	27,112	22,848	4,264	43,151
19	Michigan.....	539	87	473	234	218,308	158,001	14,326	11,865	2,461	22,065
20	Wisconsin.....	295	37	288	241	44,894	31,680	3,736	3,241	495	6,308
21	West North Central.....	3,221	452	2,679	1,032	1,267,166	918,673	50,928	38,591	12,337	76,427
22	Minnesota.....	289	89	280	198	420,698	311,745	17,178	11,726	5,452	22,295
23	Iowa.....	293	40	290	212	45,066	32,720	2,914	2,457	457	5,431
24	Missouri.....	435	69	412	248	87,073	66,386	8,454	6,319	2,135	12,122
25	North Dakota.....	167	25	136	42	65,573	40,287	1,955	1,552	403	3,456
26	South Dakota.....	133	13	130	51	34,898	25,145	2,569	2,215	354	4,615
27	Nebraska.....	305	27	264	124	81,168	64,037	2,082	1,719	363	3,435
28	Kansas.....	1,599	189	1,167	157	532,690	378,353	15,776	12,603	3,173	25,073
29	South Atlantic.....	4,701	899	4,351	1,232	1,411,426	939,989	106,066	92,417	13,649	161,799
30	Delaware and Maryland.....	176	30	168	77	35,451	22,604	2,340	1,996	344	3,800
31	Virginia.....	1,033	196	995	219	199,246	135,472	18,014	15,672	2,342	26,377
32	West Virginia.....	2,817	472	2,546	536	890,770	606,633	68,603	60,160	8,443	100,839
33	North Carolina.....	231	53	221	105	39,328	27,516	3,701	3,334	367	6,812
34	South Carolina.....	65	21	63	46	18,687	13,090	1,513	1,272	241	2,613
35	Georgia.....	173	58	169	95	74,746	52,022	5,201	4,500	701	9,669
36	Florida.....	206	69	189	154	153,198	82,652	6,694	5,483	1,211	11,689
37	East South Central.....	3,215	575	2,817	762	983,325	651,249	62,083	54,294	7,789	93,251
38	Kentucky.....	2,111	334	1,829	381	492,520	320,296	36,098	32,099	3,999	53,115
39	Tennessee.....	533	94	508	201	106,763	68,559	8,744	7,514	1,230	13,845
40	Alabama.....	316	83	295	139	196,029	127,055	11,939	10,555	1,384	17,501
41	Mississippi.....	255	64	185	41	188,013	135,339	5,302	4,126	1,176	8,790
42	West South Central.....	10,062	1,896	6,744	832	7,917,123	6,158,639	225,804	151,708	74,096	320,248
43	Arkansas.....	443	61	352	86	136,473	110,530	5,302	4,074	1,228	7,924
44	Louisiana.....	1,121	344	673	124	1,902,976	1,327,697	46,136	33,268	12,868	75,422
45	Oklahoma.....	2,643	342	1,916	166	860,630	673,995	38,237	24,659	13,578	47,635
46	Texas.....	5,855	1,149	3,803	456	5,017,044	3,846,417	136,129	89,707	46,422	189,257
47	Mountain.....	3,803	566	3,106	781	2,447,655	1,745,655	84,958	64,732	20,226	128,802
48	Montana.....	440	39	373	68	180,292	115,932	8,448	5,824	2,624	10,994
49	Idaho.....	170	22	165	79	52,084	36,815	3,932	3,305	627	6,344
50	Wyoming.....	492	87	345	70	406,917	343,940	8,612	6,004	2,608	11,994
51	Colorado.....	967	129	815	193	362,473	249,446	14,109	9,854	4,255	19,015
52	New Mexico.....	761	142	523	112	704,630	531,972	17,483	13,541	3,942	28,068
53	Arizona.....	320	40	307	93	249,442	189,015	15,283	12,136	3,147	24,540
54	Utah.....	450	79	388	94	428,030	246,198	14,014	11,598	2,416	22,851
55	Nevada.....	203	28	190	72	63,789	32,337	3,077	2,470	607	4,996
56	Pacific.....	2,059	307	1,706	742	1,534,282	1,265,284	37,047	26,062	10,985	52,871
57	Washington.....	200	28	192	107	34,136	23,917	2,035	1,597	438	2,792
58	Oregon.....	201	13	196	131	19,911	15,879	1,220	991	229	1,982
59	California.....	1,658	266	1,318	504	1,480,235	1,225,488	33,792	23,474	10,318	48,097

See footnotes at end of table.

## GENERAL SUMMARY

1-11

## Operations, by Divisions and States: 1958

captions see Introduction)

Principal expenses designated below (\$1,000)								Purchased machinery installed <sup>2</sup>  (\$1,000)	Capital expenditures <sup>2</sup> (\$1,000)			Energy used <sup>2</sup> (kwh equivalent)		
Total	Wages and salaries		Minerals received for prepara- tion	Supplies and purchases for resale <sup>3</sup>	Pur- chased fuels <sup>3</sup>	Pur- chased elec- tricity <sup>3</sup>	Contract work <sup>3</sup>		Total	Develop- ment and explora- tion of mineral property	Plant and other con- struction, machinery, and equipment	Total	Per produc- tion worker	
	Produc- tion and develop- ment workers	Other em- ployees <sup>2</sup>										(million)	(1,000)	
10,379,288	2,695,588	1,131,104	1,758,380	2,460,250	275,732	202,604	1,855,630	1,017,571	2,800,314	1,140,198	1,660,116	405,414	694	1
10,231,181	2,616,273	1,124,015	1,756,454	2,403,671	274,943	201,055	1,854,770	1,015,257	2,797,810	1,140,198	1,657,612	404,935	718	2
148,107	79,315	7,089	1,926	56,579	789	1,549	860	2,314	2,504	(NA)	2,504	479	(*)	3
30,487	11,760	5,717	122	7,792	2,220	1,484	1,392	2,693	3,970	131	3,839	711	259	4
1,907	883	122	...	525	223	72	82	252	432	79	353	74	278	5
1,890	708	243	112	444	115	73	195	174	224	2	222	34	170	6
6,270	2,528	677	...	1,988	441	400	236	381	694	39	655	189	280	7
10,869	3,887	3,190	...	2,123	792	461	416	962	1,227	4	1,223	223	271	8
897	452	131	...	98	111	49	56	161	222	3	219	29	248	9
8,654	3,302	1,354	10	2,614	558	429	407	763	1,171	4	1,167	162	244	10
872,933	324,407	94,351	164,191	155,957	22,096	30,078	81,853	65,188	92,689	17,483	75,206	14,926	205	11
95,520	34,002	23,025	4,979	20,871	4,554	4,068	4,021	5,930	12,780	3,942	8,838	2,766	432	12
32,084	13,366	6,119	80	8,426	1,492	1,771	850	2,311	3,897	1,012	2,885	655	233	13
745,329	277,039	65,207	159,132	126,660	16,050	24,239	77,002	56,947	76,012	12,529	63,483	11,505	181	14
826,874	292,921	92,477	130,043	187,077	29,641	28,667	66,048	73,860	126,891	25,786	101,105	18,184	298	15
213,173	73,356	34,951	29,599	48,531	8,645	5,247	12,844	19,213	29,094	4,615	24,479	2,907	183	16
79,922	32,432	11,117	2,372	21,098	3,231	3,638	6,034	12,479	15,330	2,262	13,068	1,630	230	17
350,882	113,007	29,644	81,294	76,016	9,239	13,611	28,071	31,155	52,969	13,117	39,852	8,647	378	18
150,060	59,292	13,926	15,783	33,005	6,295	4,689	17,070	8,450	24,985	5,118	19,867	4,304	363	19
32,837	14,834	2,839	995	8,427	2,231	1,482	2,029	2,563	4,513	674	3,839	696	215	20
677,495	174,836	78,219	93,109	171,912	34,757	18,503	106,159	69,131	145,078	47,891	97,187	23,645	613	21
213,750	59,543	37,532	29,743	55,284	13,385	7,270	10,993	7,547	15,269	2,847	12,422	7,824	667	22
26,752	9,763	2,757	368	8,548	2,552	651	2,113	4,467	6,353	143	6,210	941	383	23
63,214	26,181	11,766	826	14,887	3,060	3,234	3,260	8,784	13,364	1,872	11,492	1,305	207	24
52,326	8,023	2,681	(5)	518,316	1,668	227	21,411	9,579	25,915	9,044	16,871	805	519	25
23,382	10,667	1,963	(5)	58,391	795	784	782	5,322	2,528	320	2,208	484	219	26
35,273	7,204	1,947	(5)	512,340	1,884	377	11,521	5,322	14,313	5,772	8,541	1,457	848	27
262,798	53,455	19,573	56,074	60,244	11,413	5,960	56,079	31,903	67,336	27,893	39,443	10,829	859	28
997,941	399,482	78,814	<sup>a</sup> 194,560	<sup>a</sup> 227,547	19,711	34,600	43,227	93,637	141,845	15,642	126,203	14,697	159	29
23,074	7,462	2,232	2,504	7,130	1,057	736	1,953	3,325	3,858	110	3,748	346	173	30
150,791	57,270	11,129	29,209	34,530	2,778	3,799	12,076	17,774	36,392	1,728	34,664	1,635	104	31
645,012	282,825	51,204	122,885	138,966	5,644	18,542	22,946	51,493	76,339	12,025	64,314	6,922	115	32
24,990	10,292	1,982	371	8,742	1,645	1,348	610	2,996	3,900	288	3,612	723	217	33
11,230	4,020	1,243	(5)	54,703	705	399	160	1,480	1,850	167	1,683	282	222	34
43,128	15,591	3,984	879	16,147	3,301	2,098	1,128	6,996	7,825	356	7,469	1,880	418	35
101,716	22,022	7,040	38,712	17,329	4,581	7,678	4,354	9,573	11,681	968	10,713	2,909	531	36
640,046	220,315	43,406	130,558	150,135	14,025	16,915	64,692	55,421	99,670	27,901	71,769	12,104	223	37
338,577	129,032	20,433	75,908	73,249	5,351	9,987	24,617	28,063	44,951	9,781	35,170	4,143	129	38
73,522	26,774	5,872	(5)	52,085	3,421	2,139	3,231	5,868	8,540	1,095	7,445	1,939	258	39
127,350	45,551	9,508	(5)	57,264	2,444	4,131	8,452	10,355	13,672	1,009	12,663	1,491	141	40
100,547	18,958	7,593	15,406	26,781	2,809	658	28,392	11,135	32,507	16,016	16,491	4,531	1,098	41
4,060,176	719,783	511,397	634,542	996,197	99,359	31,842	1,067,056	464,945	1,535,457	737,804	797,653	237,107	1,563	42
57,823	16,362	7,063	73,456	716,464	2,186	1,208	11,084	7,814	16,269	5,867	10,402	3,750	920	43
1,065,448	174,570	90,359	112,644	307,959	27,581	3,151	349,184	144,851	570,091	290,513	279,578	47,946	1,441	44
507,751	104,668	90,653	750,538	7116,622	12,062	6,361	126,847	60,422	186,217	96,686	89,531	51,635	1,283	45
2,429,654	424,183	323,322	465,790	557,266	57,530	21,122	579,941	251,858	762,880	344,738	418,142	153,776	1,714	46
1,503,358	329,888	133,590	<sup>a</sup> 288,677	<sup>a</sup> 374,780	36,107	25,295	315,021	142,625	480,505	181,986	298,519	46,449	718	47
124,435	27,859	16,257	33,014	24,724	2,288	2,662	17,631	7,466	23,425	9,105	14,320	2,879	494	48
37,871	16,366	4,520	2,147	9,022	1,256	1,114	3,446	1,195	2,911	1,358	1,553	580	175	49
159,290	30,939	18,005	16,718	36,717	4,464	2,706	49,741	18,729	66,098	32,748	33,350	7,175	1,195	50
216,995	47,493	28,743	37,038	57,755	5,628	4,000	36,338	31,374	59,106	14,832	44,274	6,230	632	51
446,205	70,076	27,137	89,911	106,812	8,944	4,067	139,258	47,837	224,171	86,049	138,122	19,431	1,435	52
164,208	61,656	18,216	7,973	46,680	5,482	5,789	18,412	6,012	29,921	10,396	19,525	4,579	377	53
304,495	62,855	17,032	101,876	66,076	6,200	3,190	47,246	22,368	65,124	26,828	38,296	4,722	507	54
49,869	12,644	3,660	(5)	26,996	1,845	1,767	2,949	7,644	9,749	670	9,079	853	345	55
621,871	142,881	86,044	<sup>a</sup> 108,176	<sup>a</sup> 144,750	17,027	13,671	109,322	47,757	171,705	85,574	86,131	37,106	1,424	56
22,345	7,881	3,010	<sup>a</sup> 500	<sup>a</sup> 7,459	1,068	453	1,974	1,568	2,803	490	2,313	475	297	57
15,263	4,962	1,299	166	4,552	1,046	205	3,033	1,632	6,602	910	5,692	345	348	58
584,263	130,058	81,733	107,510	132,739	14,913	13,013	104,315	44,557	162,300	84,174	78,126	36,286	1,546	59



Table 3.-Selected Statistics for Mineral Operations,

(For explanation of column

	Division and State	Establishments, number				Value of shipments and receipts <sup>1</sup>  (\$1,000)	Value added in mining  (\$1,000)	Number of employees			Man-hours worked by production and development workers  (1,000)
		Total	With 20 or more employees	Including mining operations	Including preparation plants			Total	Production and development workers	Other employees <sup>2</sup>	
INCLUDED IN MANUFACTURES											
1	New England.....	99	19	99	37	27,198	21,657	2,905	2,485	420	5,108
2	Maine.....	13	5	13	4	2,877	2,278	279	264	15	532
3	New Hampshire.....	7	1	7	2	992	774	94	82	12	166
4	Vermont.....	26	9	26	21	11,597	8,943	1,781	1,483	298	3,095
5	Massachusetts.....	33	3	33	5	9,680	8,032	618	533	85	1,076
6	Rhode Island.....	4	1	4	2	752	486	65	57	8	104
7	Connecticut.....	16	...	16	3	1,300	1,144	68	66	2	135
8	Middle Atlantic.....	250	47	250	48	53,956	45,848	2,989	2,907	82	5,747
9	New York.....	79	13	79	16	16,055	13,631	803	772	31	1,516
10	New Jersey.....	15	2	15	1	3,310	3,025	111	111	...	221
11	Pennsylvania.....	156	32	156	31	34,591	29,192	2,075	2,024	51	4,010
12	East North Central.....	349	53	349	35	69,654	57,951	4,235	4,037	198	7,699
13	Ohio.....	163	23	163	3	27,333	22,311	1,478	1,452	26	2,922
14	Indiana.....	61	14	61	12	17,607	14,939	1,650	1,515	135	2,714
15	Illinois.....	52	5	52	1	11,067	9,873	370	370	...	740
16	Michigan.....	35	4	35	1	8,978	7,463	346	345	1	634
17	Wisconsin.....	38	7	38	18	4,669	3,365	391	355	36	689
18	West North Central.....	163	32	163	22	48,052	37,823	2,672	2,490	182	5,143
19	Minnesota.....	28	7	28	7	10,937	7,932	986	874	112	1,912
20	Iowa.....	42	4	42	1	9,567	8,382	232	232	...	453
21	Missouri.....	34	11	34	4	16,213	11,906	877	826	51	1,704
22	North Dakota.....	5	...	5	...	159	123	12	12	...	21
23	South Dakota.....	9	3	9	3	1,646	1,111	173	163	10	336
24	Nebraska.....	12	2	12	2	2,085	1,834	99	99	...	194
25	Kansas.....	33	5	33	5	7,445	6,535	293	284	9	523
26	South Atlantic.....	174	31	174	27	36,020	29,775	2,750	2,585	165	4,964
27	Delaware, Maryland, and Dist. of Col.	32	1	32	4	5,810	4,906	202	199	3	391
28	Virginia.....	33	8	33	4	8,162	7,099	586	568	18	1,083
29	West Virginia.....	9	2	9	...	1,614	1,310	112	112	...	221
30	North Carolina.....	36	4	36	6	5,229	4,241	564	510	54	952
31	South Carolina.....	21	1	21	...	1,654	1,409	78	78	...	155
32	Georgia.....	29	12	29	11	7,799	6,026	981	893	88	1,709
33	Florida.....	14	3	14	2	5,752	4,784	227	225	2	453
34	East South Central.....	96	20	96	12	24,619	20,585	1,672	1,596	76	3,124
35	Kentucky.....	12	...	12	...	1,115	1,052	36	36	...	72
36	Tennessee.....	29	12	29	9	8,991	7,442	948	897	51	1,726
37	Alabama.....	41	8	41	3	13,367	11,199	644	619	25	1,244
38	Mississippi.....	14	...	14	...	1,146	892	44	44	...	82
39	West South Central.....	154	22	154	15	32,483	27,482	1,457	1,421	36	2,758
40	Arkansas.....	20	5	20	5	4,611	3,929	333	325	8	601
41	Louisiana.....	11	...	11	...	550	356	25	25	...	48
42	Oklahoma.....	25	5	25	5	3,476	2,929	221	217	4	409
43	Texas.....	98	12	98	5	23,846	20,268	878	854	24	1,700
44	Mountain.....	113	8	113	10	27,989	24,544	848	843	5	1,659
45	Montana.....	13	...	13	...	1,209	1,061	42	42	...	79
46	Idaho.....	13	...	13	1	1,758	1,612	47	47	...	92
47	Wyoming.....	12	...	12	...	1,012	830	32	32	...	62
48	Colorado.....	25	3	25	4	7,047	6,450	164	160	4	325
49	New Mexico.....	9	...	9	2	2,441	2,174	69	68	1	129
50	Arizona.....	18	3	18	1	7,735	6,518	326	326	...	649
51	Utah.....	18	...	18	2	4,258	3,934	86	86	...	162
52	Nevada.....	5	2	5	...	2,529	1,965	82	82	...	161
53	Pacific.....	168	18	168	16	41,021	33,814	1,377	1,367	10	2,708
54	Washington.....	39	2	39	5	5,084	4,469	201	198	3	395
55	Oregon.....	29	2	29	3	3,174	2,754	147	147	...	288
56	California.....	100	14	100	8	32,763	26,591	1,029	1,022	7	2,025

NA Not available.

<sup>1</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products.<sup>2</sup>Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments. Also for "Capital expenditures for development and exploration of mineral property," excludes data for dimension stone mining operations in manufacturing establishments.<sup>3</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments the cost of purchased fuels, purchased electricity, and contract work is included with the cost of supplies and purchases for resale.<sup>4</sup>Not shown since separate figures for energy used in mining operations in manufacturing establishments were not reported for the major portion of all such operations.<sup>5</sup>The cost of minerals received for preparation is included with the cost of supplies and purchases for resale.

## by Divisions and States: 1958-Continued

captions see Introduction)

Principal expenses designated below (\$1,000)								Capital expenditures <sup>2</sup> (\$1,000)			Energy used <sup>2</sup> (kwh equivalent)		
Total	Wages and salaries		Minerals received for prepara- tion	Supplies and purchases for resale <sup>3</sup>	Pur- chased fuels <sup>3</sup>	Pur- chased elec- tricity <sup>3</sup>	Contract work <sup>3</sup>	Purchased machinery installed <sup>2</sup> (\$1,000)	Total	Develop- ment and explora- tion of mineral property	Plant and other con- struction, machinery, and equipment	Total (million)	Per produc- tion worker (1,000)
	Produc- tion and develop- ment workers	Other em- ployees <sup>2</sup>											
17,752	9,767	2,426	428	4,308	294	318	211	681	699	(NA)	699	163	(4)
1,594	921	74	(10)	10,599	(10)	(10)	(10)	28	28	(NA)	28	16	(4)
774	458	125	...	10,191	(10)	(10)	(10)	14,144	14,91	(NA)	14,91	143	(4)
9,538	5,407	1,407	(5)	5,289	176	160	99	480	550	(NA)	550	102	(4)
4,853	2,461	743	(10)	10,164	(10)	(10)	(10)	26	27	(NA)	27	41	(4)
554	252	62	(10)	10,240	(10)	(10)	(10)	(14)	(14)	(NA)	(14)	(14)	(4)
439	268	15	...	10,156	(10)	(10)	(10)	3	3	(NA)	3	(12)	(4)
20,830	12,207	461	45	13,957	13,54	13,85	13,21	13,219	13,273	(NA)	13,273	32	(4)
5,955	3,398	108	...	2,408	12	12	17	128	153	(NA)	153	6	(4)
755	470	...	...	13,285	(13)	(13)	(13)	(13)	(13)	(NA)	(13)	(12)	(4)
14,120	8,339	353	45	5,264	42	73	4	91	120	(NA)	120	26	(4)
30,371	17,415	1,227	26	10,969	202	313	219	13,593	13,619	(NA)	13,619	133	(4)
11,712	6,568	115	...	115,029	(11)	(11)	...	15	22	(NA)	22	20	(4)
9,717	6,115	915	...	2,116	127	258	186	443	462	(NA)	462	94	(4)
2,902	1,708	...	...	11,194	(11)	(11)	...	...	...	(NA)	...	1	(4)
3,009	1,490	4	...	11,151	(11)	(11)	...	(13)	(13)	(NA)	(13)	(12)	(4)
3,031	1,534	193	26	11,124	(11)	(11)	33	135	135	(NA)	135	18	(4)
21,791	10,116	1,446	(5)	5,944	87	412	286	13,195	13,195	(NA)	13,195	70	(4)
7,477	3,496	976	...	2,640	59	306	...	36	36	(NA)	36	54	(4)
2,285	1,100	...	(10)	1,185	(10)	(10)	(10)	(13)	(13)	(NA)	(13)	(12)	(4)
8,019	3,372	340	(10)	10,307	(10)	(10)	(10)	97	97	(NA)	97	7	(4)
69	33	...	...	36	(10)	(10)	(10)	...	...	(NA)	...	...	(4)
1,227	591	101	...	10,535	(10)	(10)	(10)	54	54	(NA)	54	5	(4)
671	420	...	...	251	(11)	(11)	...	(13)	(13)	(NA)	(13)	(12)	(4)
2,043	1,104	29	...	11,908	(11)	(11)	2	8	8	(NA)	8	4	(4)
15,928	8,827	826	282	13,573	13,85	13,211	13,24	13,359	13,389	(NA)	13,389	43	(4)
1,842	924	14	...	11,904	(11)	(11)	...	3	3	(NA)	3	1	(4)
3,035	1,884	88	...	11,106	(11)	(11)	...	3	3	(NA)	3	3	(4)
876	572	...	...	304	...	...	...	...	...	(NA)	...	...	(4)
2,647	1,419	236	172	733	33	53	1	71	75	(NA)	75	14	(4)
528	285	...	...	245	...	...	...	...	...	(NA)	...	...	(4)
4,961	2,682	480	(5)	5,159	35	147	23	282	308	(NA)	308	25	(4)
2,039	1,063	8	(10)	10,968	(10)	(10)	(10)	(13)	(13)	(NA)	(13)	(12)	(4)
9,581	5,085	441	190	3,678	35	149	3	143	164	(NA)	164	24	(4)
184	121	...	...	63	(11)	(11)	...	...	...	(NA)	...	...	(4)
4,509	2,637	302	(5)	11,156	(11)	(11)	3	117	138	(NA)	138	16	(4)
4,498	2,191	139	(5)	11,268	(11)	(11)	...	26	26	(NA)	26	8	(4)
390	136	...	...	254	...	...	...	...	...	(NA)	...	...	(4)
10,361	5,144	182	120	4,807	16	56	36	14	48	(NA)	48	8	(4)
1,844	1,141	21	(10)	10,682	(10)	(10)	(10)	2	2	(NA)	2	2	(4)
292	98	...	...	194	(11)	(11)	...	...	...	(NA)	...	...	(4)
1,311	735	8	(10)	11,568	(10)	(10)	(10)	...	21	(NA)	21	3	(4)
6,914	3,170	153	(10)	10,591	(10)	(10)	(10)	12	25	(NA)	25	3	(4)
7,317	3,851	15	...	11,344	(11)	(11)	6	45	51	(NA)	51	2	(4)
327	179	...	...	148	(10)	(10)	(10)	...	...	(NA)	...	...	(4)
345	199	...	...	10,146	(10)	(10)	(10)	...	...	(NA)	...	...	(4)
335	153	...	...	182	(10)	(10)	(10)	...	...	(NA)	...	...	(4)
1,290	673	14	...	10,603	(10)	(10)	(10)	16	22	(NA)	22	2	(4)
547	279	1	...	267	...	...	...	...	...	(NA)	...	...	(4)
2,818	1,601	...	...	1,217	...	...	...	29	29	(NA)	29	(12)	(4)
707	383	...	...	324	...	...	...	...	...	(NA)	...	...	(4)
948	384	...	...	564	...	...	...	...	...	(NA)	...	...	(4)
14,176	6,903	65	(5)	11,154	(11)	(11)	54	50	51	(NA)	51	7	(4)
1,701	1,063	23	...	10,615	(10)	(10)	...	15	15	(NA)	15	6	(4)
1,080	660	...	...	10,420	(10)	(10)	(10)	...	...	(NA)	...	...	(4)
11,395	5,180	42	(10)	10,617	(10)	(10)	(10)	35	36	(NA)	36	1	(4)

<sup>6</sup>For South Carolina, the cost of minerals received for preparation is included with the cost of supplies and purchases for resale.<sup>7</sup>For the Metal Mining Industries, the cost of minerals received for preparation is included with the cost of supplies and purchases for resale.<sup>8</sup>For Nevada, the cost of minerals received for preparation is included with the cost of supplies and purchases for resale.<sup>9</sup>For Washington, the cost of minerals received for preparation in the Metal Mining and Nonmetallic Minerals Mining Industries is included with the cost of supplies and purchases for resale.<sup>10</sup>For dimension stone operations in manufacturing industries the cost of minerals received for preparation, purchased fuels, purchased electricity, and contract work is included with the cost of supplies and purchases for resale.<sup>11</sup>For dimension stone operations in manufacturing industries, the cost of purchased fuels and purchased electricity is included with the cost of supplies and purchases for resale. For Tennessee, Alabama, and Pacific, see also footnote 5.<sup>12</sup>Less than one-half of the unit of measure specified.<sup>13</sup>For dimension stone operations in New Jersey and Florida, the cost of purchased fuels, purchased electricity, and contract work are included with the cost of supplies and purchases for resale. For dimension stone operations in New Jersey, Michigan, Iowa, Nebraska, and Florida, the cost of purchased machinery and capital expenditures are excluded from the State and division totals.<sup>14</sup>Figures for Rhode Island are included with those for New Hampshire.



Table 4.—Selected Statistics for Mineral Operations in the United States,

(For explanation of column captions and for statement on the minimum size of establishments)

Major industry group, industry, and year	Number of oper- ating com- panies	Establishments, number			Value of net shipments and receipts <sup>2</sup>  (\$1,000)	Value added in mining  (\$1,000)	Number of persons engaged				Man-hours worked by production and development workers  (1,000)	
		Total	Includ- ing mining opera- tions <sup>1</sup>	Includ- ing prepa- ration plants			Produc- tion and develop- ment workers	Other em- ployees <sup>3</sup>	Proprietors and firm members <sup>4</sup>			
									Total	Per- forming manual labor		
All mineral operations: Including oil and gas extraction:												
1 1958.....	31,926	37,784	31,130	8,619	16,715,395	13,680,973	584,012	169,525	36,827	16,042	1,116,774	
2 1954.....	32,932	38,663	32,244	8,814	<sup>e</sup> 14,450,664	11,740,054	666,621	139,347	40,176	20,958	1,288,461	
3 1939.....	20,658	(NA)	22,162	5,450	3,413,954	2,765,396	774,130	82,259	16,040	7,068	1,287,852	
Excluding oil and gas extraction:												
4 1958.....	16,611	19,283	18,414	8,026	6,059,363	4,645,684	370,077	70,660	16,442	9,124	676,672	
5 1954.....	17,848	21,078	20,736	8,232	<sup>e</sup> 5,220,719	4,066,360	431,138	59,095	20,352	13,959	796,743	
6 1939.....	11,310	(NA)	13,557	4,716	1,754,123	1,429,122	625,134	45,105	8,310	5,213	1,022,824	
7 1929.....	(NA)	10,996	12,506	(NA)	2,392,831	1,955,804	812,220	53,331	4,897	(NA)	(NA)	
Metal mining:												
8 1958.....	1,906	2,233	2,056	602	1,571,191	1,187,327	71,402	21,099	1,848	1,190	136,750	
9 1954.....	2,961	3,496	3,356	993	<sup>e</sup> 1,361,035	<sup>e</sup> 1,075,519	81,896	18,354	3,525	2,721	168,346	
10 1939.....	1,886	(NA)	2,095	693	517,377	416,956	89,791	10,344	1,169	824	190,835	
11 1929.....	(NA)	1,799	2,007	(NA)	633,821	496,335	115,775	9,802	313	(NA)	(NA)	
Iron ores:												
12 1958.....	127	242	232	123	635,388	500,232	23,659	7,917	130	83	41,737	
13 1954.....	94	225	298	123	539,160	435,668	28,216	5,954	73	46	53,288	
14 1939.....	116	(NA)	196	44	150,871	133,390	20,377	2,274	32	14	38,513	
15 1929.....	(NA)	186	124	(NA)	197,335	167,127	28,623	2,490	9	(NA)	(NA)	
Copper ores:												
16 1958.....	112	148	140	36	374,428	266,485	20,898	6,744	104	69	41,021	
17 1954.....	179	210	201	48	409,911	334,876	21,544	6,269	184	145	46,676	
18 1939.....	35	(NA)	51	27	141,634	108,494	23,844	2,908	...	...	51,239	
19 1929.....	(NA)	143	180	45	283,517	221,690	44,502	3,465	76	(NA)	(NA)	
Lead and zinc ores:												
20 1958.....	226	288	275	69	103,843	73,679	8,728	2,499	212	141	16,734	
21 1954.....	411	520	491	141	140,132	107,409	13,592	2,974	450	343	27,554	
22 1939.....	208	(NA)	260	124	62,651	47,310	15,731	1,994	89	48	32,481	
23 1929.....	(NA)	303	375	188	112,428	84,793	25,907	1,818	78	(NA)	(NA)	
Lode gold and Silver ores:												
24 1958.....	302	305	303	58	40,655	33,023	3,088	487	251	185	6,348	
25 1954.....	384	399	392	159	38,943	31,740	3,699	576	366	289	8,108	
26 1939.....	1,004	(NA)	1,038	365	105,780	82,863	21,847	2,034	631	492	50,577	
27 1929.....	(NA)	241	258	94	26,107	17,604	7,946	663	114	(NA)	(NA)	
Placer gold:												
28 1958.....	73	74	74	74	6,326	4,873	323	41	77	56	723	
29 1954.....	131	136	136	116	5,916	3,614	501	55	173	145	1,255	
30 1939.....	307	(NA)	340	339	28,027	21,935	3,228	477	260	167	8,088	
31 1929.....	(NA)	32	37	(NA)	3,779	2,582	578	90	18	(NA)	(NA)	
Bauxite:												
32 1958.....	12	29	23	8	17,374	15,430	502	203	7	6	905	
33 1954.....	12	25	20	9	16,029	12,827	661	191	2	...	1,288	
34 1939.....	10	(NA)	12	11	2,527	1,965	727	100	...	...	1,176	
35 1929.....	(NA)	9	11	(NA)	2,239	1,781	602	87	1	(NA)	(NA)	
Manganese ores:												
36 1958.....	182	186	176	68	34,330	20,014	1,792	307	209	128	3,475	
37 1954.....	319	367	360	63	27,016	18,118	2,266	338	458	386	4,293	
38 1939.....	26	(NA)	34	14	945	707	504	41	12	4	959	
39 1929.....	(NA)	19	21	(NA)	1,184	967	354	35	4	(NA)	(NA)	
Tungsten ores:												
40 1958.....	32	32	28	18	714,430	8,164	508	130	19	9	977	
41 1954.....	500	549	524	171	49,846	40,744	2,635	352	714	634	6,327	
42 1939.....	39	(NA)	53	32	3,354	2,427	701	143	31	22	1,639	
43 1929.....	(NA)	12	13	(NA)	734	540	186	31	3	(NA)	(NA)	
Ferroalloy ores, nec:												
44 1958.....	75	76	73	26	57,675	46,077	2,080	621	110	69	3,883	
45 1954.....	155	170	158	63	60,075	48,537	1,937	550	243	194	4,502	
46 1939.....	17	(NA)	16	7	15,458	13,271	963	141	9	5	2,088	
Metal mining services:												
47 1958.....	91	95	xxx	xxx	32,384	22,862	1,973	211	85	50	4,274	
48 1954.....	114	114	xxx	xxx	38,539	26,703	2,863	196	82	55	6,519	
49 1939.....	69	69	xxx	xxx	2,368	1,822	637	58	49	28	1,344	

See footnotes at end of table.

## GENERAL SUMMARY

1-15

## by Major Industry Group and Industry: 1958, 1954, 1939, and 1929

included for each year, see Introduction. For 1929, excludes data for service industries)

Principal expenses designated below (\$1,000)						Capital expenditures (\$1,000)					Energy used <sup>5</sup>  (million kwh equivalent)	
Wages and salaries		Supplies and purchases for resale <sup>5</sup>	Purchased fuels <sup>5</sup>	Purchased elec- tricity <sup>5</sup>	Contract work <sup>5</sup>	Purchased machinery installed <sup>3</sup>  (\$1,000)	Develop- ment and explora- tion of mineral property <sup>4</sup>	Prepara- tion plant and other con- struction <sup>3</sup>	New machinery and equipment <sup>3</sup>	Used plant and equipment <sup>3</sup>		
Production and development workers	Other employees <sup>3</sup>											
2,695,588 2,639,378 970,546	1,131,104 817,601 204,225	2,460,250 2,023,377 307,980	275,732 206,491 60,965	202,604 161,083 69,245	1,855,630 1,827,372 210,368	1,017,571 1,214,881 (NA)	1,140,198 1,309,076 (NA)	466,585 313,905 27,435	1,095,225 992,399 241,135	98,306 110,285 21,962	405,414 373,126 224,898	1 2 3
1,684,909 1,662,783 750,111 1,099,895	442,363 331,753 106,278 139,023	1,058,850 855,028 220,789 298,198	145,080 109,681 34,718 49,146	149,271 126,066 62,144 71,769	296,300 269,513 7,350 17,514	363,339 351,676 (NA) 86,733	64,885 79,118 (NA) 89,646	206,846 155,083 16,217 (NA)	299,224 224,649 52,666 (NA)	39,624 40,499 9,451 (NA)	95,101 88,030 77,131 133,790	4 5 6 7
356,209 353,303 127,111 178,319	131,577 109,722 26,806 27,484	282,406 229,913 68,719 93,951	37,986 26,936 10,400 17,098	37,230 32,662 18,686 18,975	132,405 117,079 2,616 7,462	69,531 86,891 (NA) 25,391	44,228 64,569 (NA) 59,682	97,647 84,313 5,409 (NA)	65,298 65,655 14,775 (NA)	7,118 6,530 3,342 (NA)	27,383 21,087 14,628 24,727	8 9 10 11
120,618 119,688 27,431 41,049	53,769 37,221 5,895 6,385	80,320 75,866 10,791 18,717	17,447 9,549 2,280 5,332	14,000 13,767 4,174 4,607	29,510 47,515 236 1,552	18,516 36,994 (NA) 4,016	10,913 23,515 (NA) 10,223	11,944 32,790 784 (NA)	18,675 27,955 3,550 (NA)	1,217 718 210 (NA)	11,106 5,928 3,246 7,763	12 13 14 15
106,357 98,491 34,486 73,200	37,144 37,574 8,078 10,136	86,587 72,822 23,562 43,995	9,744 8,576 4,168 9,210	9,476 6,278 4,899 6,027	22,024 43,873 511 2,595	19,191 23,821 (NA) 13,084	9,720 23,750 (NA) 22,151	14,835 35,265 1,822 (NA)	16,534 21,955 2,577 (NA)	3,785 1,240 1,507 (NA)	10,239 9,255 6,693 12,200	16 17 18 19
39,001 53,676 20,253 39,191	15,396 17,687 5,084 5,053	21,185 24,673 10,580 18,344	1,058 1,409 848 1,536	5,869 6,838 3,550 6,102	2,952 6,080 363 1,653	2,920 5,942 (NA) 3,752	4,160 6,509 (NA) 8,172	1,845 2,054 390 (NA)	2,502 2,509 778 (NA)	112 448 339 (NA)	1,153 1,641 1,556 2,964	20 21 22 23
15,549 15,409 33,321 12,983	2,655 2,898 4,973 1,738	7,188 7,184 16,261 5,934	774 674 1,595 558	1,227 991 3,921 1,317	580 684 1,140 694	1,065 1,356 (NA) 1,509	1,116 1,624 (NA) 5,641	871 728 1,890 (NA)	651 590 3,588 (NA)	246 301 615 (NA)	457 720 1,830 1,130	24 25 26 27
1,515 1,997 5,632 970	275 314 1,162 260	1,070 1,554 3,780 590	94 248 700 1	431 661 1,471 604	85 41 141 2	113 302 (NA) 359	65 180 (NA) 76	91 52 135 (NA)	115 121 3,348 (NA)	69 151 442 (NA)	71 170 510 69	28 29 30 31
2,290 2,529 578 513	1,316 1,052 241 277	728 789 269 216	258 239 187 122	172 134 60 38	445 1,603 46 82	1,483 356 (NA) 96	24 24 (NA) 13	107 11 20 (NA)	1,247 271 173 (NA)	30 4 7 (NA)	151 170 270 (NA)	32 33 34 35
7,244 7,643 483 392	1,792 1,649 83 88	5,216 5,087 161 140	1,101 721 37 32	677 477 40 39	2,807 3,573 ... 6	1,085 2,304 (NA) 12	469 607 (NA) 40	253 708 3 (NA)	1,113 1,366 29 (NA)	355 583 6 (NA)	582 477 37 73	36 37 38 39
1,993 13,148 1,114 297	914 1,610 254 61	1,385 8,295 659 127	17 933 99 10	217 753 114 53	7 1,885 55 4	98 3,562 (NA) 14	17 2,168 (NA) 92	32 1,267 163 (NA)	56 2,224 205 (NA)	17 667 104 (NA)	25 371 41 (NA)	40 41 42 43
10,218 10,539 1,499	4,550 3,946 561	9,216 9,853 1,736	553 357 44	1,369 1,289 364	3,718 3,359 43	975 2,609 (NA)	817 410 (NA)	2,370 3,334 42	925 1,987 102	121 198 40	315 280 44	44 45 46
10,624 13,933 853	1,473 1,335 132	7,657 10,412 382	1,271 1,273 144	60 133 20	432 509 (NA)	1,365 2,049 (NA)	xxx xxx xxx	34 523 (NA)	1,155 1,522 (NA)	74 355 (NA)	340 358 (NA)	47 48 49



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 4.-Selected Statistics for Mineral Operations in the United States, by

(For explanation of column captions and for statement on the minimum size of establishments

	Major industry group, industry, and year	Number of operating companies	Establishments, number			Value of net shipments and receipts <sup>2</sup> (\$1,000)	Value added in mining (\$1,000)	Number of persons engaged				Man-hours worked by production and development workers (1,000)
			Total	Including mining operations <sup>1</sup>	Including preparation plants			Production and development workers	Other employees <sup>3</sup>	Proprietors and firm members <sup>4</sup>		
										Total	Per-forming manual labor	
	Metal mining--Continued											
	Mercury ores:											
1	1958.....	77	79	78	72	78,607	7,093	569	83	78	62	1,223
2	1954.....	81	87	87	75	74,519	3,355	372	81	125	110	841
3	1939.....	72	(NA)	69	60	1,830	1,425	621	81	51	41	1,421
4	1929.....	(NA)	40	40	(NA)	2,820	2,042	1,029	88	10	(NA)	(NA)
	Titanium ores:											
5	1958.....	9	11	10	11	16,531	12,746	706	256	...	...	1,234
6	1954.....	7	10	8	8	712,750	11,134	568	275	1	1	1,261
7	1939.....	3	(NA)	3	3	458	370	183	13	...	...	322
	Uranium-radium-vanadium ores:											
8	1958.....	563	602	582	30	226,999	174,802	6,389	1,550	507	291	13,873
9	1954.....	572	637	636	8	(NA)	(NA)	2,944	523	614	339	6,227
10	1939.....	8	(NA)	8	6	1,472	1,043	378	63	5	3	879
	Metallic ores, nec:											
11	1958.....	66	66	62	9	73,018	1,847	187	50	59	41	343
12	1954.....	44	47	45	9	71,325	794	98	20	40	34	207
	Anthracite mining:											
13	1958.....	1,157	1,248	1,065	188	234,000	164,489	20,047	2,766	1,863	1,298	30,867
14	1954.....	1,296	1,436	1,263	196	291,408	196,835	33,026	4,436	2,338	2,065	48,266
15	1939.....	359	(NA)	518	163	201,126	154,023	83,112	5,480	301	161	124,462
16	1929.....	(NA)	198	303	(NA)	384,854	320,756	142,801	8,370	38	(NA)	(NA)
	Anthracite:											
17	1958.....	1,075	1,163	1,065	188	199,214	142,198	17,266	2,446	1,795	1,253	26,409
18	1954.....	1,160	1,291	1,263	196	248,513	167,090	28,823	3,946	2,201	1,985	42,061
19	1939.....	289	(NA)	518	163	189,648	146,418	80,429	5,284	232	139	120,085
20	1929.....	(NA)	198	303	(NA)	384,854	320,756	142,801	8,370	38	(NA)	(NA)
	Anthracite stripping services:											
21	1958.....	78	79	xxx	xxx	34,463	22,027	2,737	317	60	42	4,395
22	1954.....	131	132	xxx	xxx	42,048	29,079	4,074	482	126	72	6,038
23	1939.....	58	58	xxx	xxx	10,936	7,126	2,461	185	56	21	4,038
	Anthracite mining services, nec:											
24	1958.....	6	6	xxx	xxx	323	264	44	3	8	3	63
25	1954.....	13	13	xxx	xxx	847	666	129	8	11	8	167
26	1939.....	13	13	xxx	xxx	542	479	222	11	13	1	339
	Bituminous coal and lignite mining:											
27	1958.....	6,300	6,930	6,561	1,831	2,091,428	1,609,964	163,533	24,173	7,311	3,785	267,699
28	1954.....	6,104	6,855	6,844	628	1,806,319	1,418,384	199,655	19,178	7,760	5,485	325,769
29	1939.....	5,182	(NA)	5,847	365	731,427	610,674	370,944	19,834	4,676	3,409	545,702
30	1929.....	(NA)	4,995	5,639	(NA)	966,694	819,976	458,835	23,686	2,983	(NA)	(NA)
	Bituminous coal:											
31	1958.....	6,102	6,715	6,503	1,807	2,058,794	1,585,541	161,711	23,965	7,071	3,629	264,308
32	1954.....	5,913	6,643	6,784	628	1,778,336	1,396,774	197,819	18,994	7,539	5,324	322,410
33	1939.....	5,021	(NA)	5,716	365	727,358	607,318	369,265	19,690	4,497	3,271	542,310
	Lignite:											
34	1958.....	53	58	58	24	11,035	9,309	437	73	57	38	844
35	1954.....	56	60	60	...	10,387	9,093	505	69	57	43	901
36	1939.....	130	(NA)	131	...	3,457	2,879	1,480	115	144	118	3,027
	Coal stripping services, nec and Coal mining services, nec:											
37	1958.....	157	157	xxx	xxx	21,599	15,114	1,385	135	183	118	2,547
38	1954.....	152	152	xxx	xxx	717,596	12,517	1,331	115	164	118	2,458
39	1939.....	32	32	xxx	xxx	612	477	199	29	35	20	365
	Oil and gas extraction:											
40	1958.....	15,363	18,501	12,716	593	10,656,032	9,035,289	213,935	98,865	20,385	6,918	440,102
41	1954.....	15,099	17,585	11,508	582	9,229,945	7,673,694	235,483	80,252	19,824	6,999	491,718
42	1939.....	9,348	10,909	8,605	736	1,659,831	1,242,473	148,996	37,154	7,730	1,855	265,028
	Crude petroleum and natural gas:											
43	1958.....	9,835	11,993	11,993	xxx	8,384,586	7,339,922	102,445	77,595	14,281	3,984	200,930
44	1954.....	9,720	11,508	11,508	xxx	7,070,062	6,129,213	109,792	62,714	13,316	3,886	216,581
45	1939.....	8,061	8,605	8,605	xxx	1,375,954	1,071,989	105,505	30,546	6,294	1,346	190,674

See footnotes at end of table.

## GENERAL SUMMARY

1-17

## Major Industry Group and Industry: 1958, 1954, 1939, and 1929—Continued

included for each year, see Introduction. For 1929, excludes data for service industries)

Principal expenses designated below (\$1,000)							Capital expenditures (\$1,000)						
Wages and salaries		Supplies and purchases for resale <sup>5</sup>	Purchased fuels <sup>5</sup>	Purchased elec- tricity <sup>5</sup>	Contract work <sup>5</sup>	Purchased machinery installed <sup>3</sup>  (\$1,000)	Develop- ment and explora- tion of mineral property <sup>4</sup>	Prepara- tion plant and other con- struction <sup>3</sup>	New machinery and equipment <sup>3</sup>	Used plant and equipment <sup>3</sup>	Energy used <sup>3</sup>  (million kwh equivalent)		
Production and development workers	Other employees <sup>3</sup>												
2,627 1,607 752 1,383	485 365 164 220	<sup>a</sup> 1,462 <sup>a</sup> 1,160 229 464	387 204 139 230	102 61 33 69	55 28 4 15	370 226 (NA) 618	290 167 (NA) 460	131 176 68 (NA)	352 116 139 (NA)	89 56 54 (NA)	129 78 92 140	1 2 3 4	
2,882 2,397 140	1,614 1,302 42	<sup>a</sup> 3,252 <sup>a</sup> 2,801 38	614 449 15	1,077 743 35	121 335 ...	1,831 1,286 (NA)	39 ... (NA)	329 2,904 15	2,115 1,092 72	... 2 ...	426 361 18	5 6 7	
34,439 11,908 497	9,983 2,660 112	57,027 9,844 244	4,525 2,263 140	2,505 505 ...	69,613 7,462 45	20,092 5,336 (NA)	16,499 5,494 (NA)	64,578 4,289 77	19,660 3,842 169	828 1,168 17	2,344 1,266 224	8 9 10	
852 338	211 109	<sup>a</sup> 1,196 <sup>a</sup> 655	143 41	48 32	56 132	427 748	99 121	227 212	198 105	175 639	45 12	11 12	
79,425 113,932 107,798 229,967	13,971 21,997 12,252 21,282	29,930 29,027 25,489 43,367	4,062 3,932 3,920 7,420	7,325 8,787 6,524 6,509	40,505 51,226 11,170 6,802	10,033 9,270 (NA) 5,580	3,818 1,438 (NA) 7,902	1,879 2,241 1,771 (NA)	9,683 4,767 2,882 (NA)	1,211 2,048 322 (NA)	3,881 7,198 19,716 42,694	13 14 15 16	
67,449 98,678 104,378 229,967	12,024 19,392 11,482 21,282	20,777 20,224 22,496 43,367	2,346 2,038 3,275 7,420	6,814 8,397 6,430 6,509	39,319 50,156 11,029 6,802	6,317 5,667 (NA) 5,580	3,818 1,438 (NA) 7,902	1,811 2,148 1,771 (NA)	6,333 3,367 1,974 (NA)	842 931 221 (NA)	3,347 6,589 19,455 42,694	17 18 19 20	
11,780 14,809 3,166	1,937 2,571 749	9,101 8,651 2,956	1,708 1,868 619	511 390 94	1,186 1,068 141	3,615 3,529 (NA)	xxx xxx xxx	68 95 899	3,349 1,371	268 1,073 101	526 602 261	21 22 23	
196 445 254	10 34 21	52 152 37	8 26 26	... ... ...	... 2 (NA)	101 74 (NA)	xxx xxx xxx	... xxx 9	1 29	101 44	8 7 (NA)	24 25 26	
760,364 764,863 432,188 574,919	152,420 109,442 44,488 58,647	373,569 322,916 88,516 106,560	23,536 17,111 5,432 7,529	56,676 47,802 24,895 30,739	70,632 55,188 1,910 1,890	151,955 121,640 (NA) 34,947	9,058 3,601 (NA) 16,928	66,663 34,168 5,321 (NA)	101,219 66,206 22,471 (NA)	11,255 14,836 2,967 (NA)	14,903 15,351 22,587 37,766	27 28 29 30	
751,584 757,175 430,564	151,175 108,474 44,183	368,722 319,298 88,093	21,628 15,712 5,299	56,309 47,512 24,749	69,727 54,231 1,899	147,493 118,481 (NA)	8,984 3,586 (NA)	66,462 33,948 5,305	97,783 63,845 22,357	10,738 14,382 2,947	14,303 14,854 22,339	31 32 33	
2,261 2,177 1,384	432 411 219	1,133 627 342	210 239 80	260 254 145	33 206 11	1,522 607 (NA)	74 15 (NA)	69 134 16	1,236 479 73	53 11 20	111 144 248	34 35 36	
6,519 5,511 240	813 557 86	3,714 2,991 81	1,698 1,160 53	107 36 1	872 751 (NA)	2,940 2,552 (NA)	xxx xxx xxx	132 86	2,200 1,882	464 443	489 353 (NA)	37 38 39	
1,010,679 976,595 220,435	688,741 485,848 97,947	1,401,400 1,168,349 (NA)	130,652 96,810 (NA)	53,333 35,017 (NA)	1,559,330 1,557,859 (NA)	654,232 863,205 (NA)	1,075,313 1,229,958 (NA)	259,739 158,822 (NA)	796,001 767,750 (NA)	58,682 69,786 (NA)	310,313 285,096 (NA)	40 41 42	
497,571 459,955 155,700	544,615 375,785 79,199	951,911 692,682 78,538	56,204 36,177 19,647	45,770 30,624 6,746	1,449,571 1,458,807 199,034	486,021 621,048 (NA)	1,062,206 1,206,214 (NA)	197,674 98,229 9,757	646,389 558,950 177,849	37,224 35,061 11,561	137,440 141,655 92,788	43 44 45	



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 4.—Selected Statistics for Mineral Operations in the United States, by

(For explanation of column captions and for statement on the minimum size of establishments

Major industry group, industry, and year	Number of operating companies	Establishments, number			Value of net shipments and receipts <sup>2</sup> (\$1,000)	Value added in mining (\$1,000)	Number of persons engaged				Man-hours worked by production and development workers (1,000)	
		Total	Including mining operations <sup>1</sup>	Including preparation plants			Production and development workers	Other employees <sup>3</sup>	Proprietors and firm members <sup>4</sup>			
									Total	Per-forming manual labor		
Oil and gas extraction--Continued												
Natural gas liquids:												
1 1958.....	176	593	xxx	593	706,915	587,580	13,445	3,069	52	8	26,947	
2 1954.....	181	562	xxx	582	582,866	425,937	13,560	3,780	72	13	27,862	
3 1939.....	295	685	xxx	736	96,338	(NA)	8,332	2,005	10	2	16,634	
Drilling oil and gas wells services:												
4 1958.....	2,911	3,064	592	xxx	902,721	587,440	52,274	7,137	3,206	1,346	109,470	
5 1954.....	2,846	2,869	(NA)	xxx	968,129	623,967	62,145	5,831	3,599	1,684	133,216	
6 1939.....	985	985	(NA)	xxx	128,107	(NA)	22,548	1,676	862	292	38,621	
Oil and gas exploration services:												
7 1958.....	329	347	3	xxx	86,108	64,353	7,559	1,998	279	127	16,695	
8 1954.....	309	330	(NA)	xxx	7114,815	81,301	10,010	1,478	191	148	23,978	
Oil and gas field services, nec:												
9 1958.....	2,456	2,504	128	xxx	575,702	455,994	38,212	9,066	2,567	1,453	86,060	
10 1954.....	2,313	2,316	(NA)	xxx	7543,460	413,276	39,976	6,449	2,846	1,268	90,081	
Nonmetallic minerals mining:												
11 1958:												
Including operations in manufactures.....	7,236	8,872	8,732	5,405	2,162,744	1,683,904	115,095	<sup>a</sup> 22,622	<sup>4</sup> 5,420	<sup>4</sup> 2,851	241,356	
12 Mineral industries only...	6,137	7,306	7,166	5,183	1,807,622	1,384,425	95,364	21,448	5,420	2,851	202,446	
13 1954:												
Including operations in manufactures.....	7,571	9,291	9,273	6,415	1,761,957	1,375,622	116,561	<sup>a</sup> 17,127	<sup>4</sup> 6,729	<sup>4</sup> 3,688	254,362	
14 Mineral industries only...	6,623	8,074	8,054	6,211	1,522,755	1,181,986	97,081	16,347	6,561	3,568	214,799	
15 1939.....	4,127	(NA)	5,097	3,459	323,043	255,702	81,287	9,113	2,164	819	161,824	
16 1929 <sup>a</sup> .....	(NA)	4,004	4,557	(NA)	407,461	318,737	94,808	11,462	1,563	(NA)	(NA)	
Dimension stone:												
17 1958:												
Including operations in manufactures.....	504	557	557	231	83,446	67,131	10,825	1,425	<sup>4</sup> 269	<sup>4</sup> 175	20,679	
18 Mineral industry only..	306	335	335	9	15,719	13,076	2,055	251	269	175	3,690	
19 1954:												
Including operations in manufactures.....	523	555	558	204	76,282	61,774	11,389	936	467	253	23,155	
20 Mineral industry only.....	322	351	352	...	18,418	15,155	3,068	156	299	133	5,893	
Mineral industry only:												
21 Dimension limestone:												
1958.....	65	68	68	4	4,174	3,741	491	92	57	38	879	
22 1954.....	63	65	65	...	3,398	2,942	472	28	72	41	872	
23 1939.....	33	(NA)	40	...	1,541	1,368	617	55	13	(NA)	(NA)	
24 Dimension granite:												
1958.....	63	76	76	1	5,517	4,085	681	59	45	24	1,277	
25 1954.....	79	86	86	...	5,738	4,590	917	50	55	25	1,769	
26 1939.....	77	(NA)	93	...	3,268	2,674	1,163	75	59	(NA)	(NA)	
27 Dimension stone, nec:												
1958.....	178	191	191	4	6,028	5,250	883	100	167	113	1,534	
28 1954.....	180	200	200	...	9,282	7,623	1,679	78	172	67	3,252	
29 1939.....	44	(NA)	51	...	1,547	1,241	945	35	31	3	(NA)	
Crushed and broken stone:												
30 1958:												
Including operations in manufactures.....	1,680	2,176	2,152	1,813	741,038	562,435	39,846	(NA)	(NA)	(NA)	85,594	
31 Mineral industry only.....	1,597	1,957	1,933	1,813	602,305	445,788	34,865	6,539	1,323	611	75,632	
32 1954:												
Including operations in manufactures.....	1,632	2,166	2,166	1,790	577,793	435,453	39,465	(NA)	(NA)	(NA)	88,257	
33 Mineral industry only.....	1,522	1,911	1,911	1,790	458,846	338,418	33,178	4,293	1,270	603	75,680	
Mineral industry only:												
34 Crushed and broken limestone:												
1958.....	1,176	1,458	1,441	1,387	446,860	334,368	26,372	5,036	1,088	499	57,112	
35 1954.....	1,174	1,447	1,443	1,362	323,703	239,604	24,925	3,315	1,017	490	56,335	
36 1939.....	716	(NA)	918	(NA)	55,172	41,432	17,655	1,726	507	(NA)	(NA)	
37 1929.....	(NA)	742	785	(NA)	66,908	(NA)	16,443	(NA)	(NA)	(NA)	(NA)	

See footnotes at end of table.

## Major Industry Group and Industry: 1958, 1954, 1939, and 1929—Continued

included for each year, see Introduction. For 1929, excludes data for service industries)

Principal expenses designated below (\$1,000)						Purchased machinery installed <sup>3</sup>  (\$1,000)	Capital expenditures (\$1,000)				Energy used  (million kwh equivalent)	
Wages and salaries		Supplies and purchases for resale <sup>5</sup>	Purchased fuels <sup>5</sup>	Purchased elec- tricity <sup>5</sup>	Contract work <sup>5</sup>		Develop- ment and explora- tion of mineral property <sup>4</sup>	Prepara- tion plant and other con- struction <sup>3</sup>	New machinery and equipment <sup>3</sup>	Used plant and equipment <sup>3</sup>		
Production and development workers	Other employees <sup>3</sup>											
75,739 63,983 13,212	20,580 21,074 5,052	46,026 43,891 8,653	4,521 1,964 6,600	4,696 3,190 355	44,983 36,726 3,984	39,836 65,752 (NA)	xxx xxx xxx	53,566 55,794 1,461	40,441 51,227 10,620	923 2,958 949	142,130 113,449 54,979	1 2 3
239,328 264,797 36,020	49,915 39,515 5,917	241,491 298,789 (NA)	40,942 36,704 (NA)	1,261 320 (NA)	51,366 46,048 (NA)	84,457 120,385 (NA)	12,953 23,416 (NA)	3,322 1,939 (NA)	68,149 99,722 (NA)	17,594 28,391 (NA)	22,617 23,302 (NA)	4 5 6
31,115 40,813	12,534 8,654	16,396 23,480	3,535 3,586	295 106	3,643 6,547	6,075 6,537	... ...	554 32	6,207 6,360	321 350	949 942	7 8
166,926 147,047	61,097 40,820	145,576 109,507	25,450 18,379	1,311 777	9,767 9,731	37,843 49,483	154 328	4,623 2,828	34,815 51,491	2,620 3,046	7,177 5,748	9 10
488,911 409,596	<sup>3</sup> 144,395 137,306	<sup>5</sup> 372,945 316,366	<sup>5</sup> 79,496 78,707	<sup>5</sup> 48,040 46,491	<sup>5</sup> 52,758 51,898	<sup>3</sup> 131,820 129,506	<sup>4</sup> 7,781 7,781	<sup>3</sup> 40,657 40,450	<sup>3</sup> 123,024 120,939	<sup>3</sup> 20,040 19,828	<sup>3</sup> 48,934 48,455	11 12
430,685 363,604 83,014 116,691	<sup>3</sup> 90,592 86,416 21,641 31,608	<sup>5</sup> 273,172 230,371 38,065 54,319	<sup>5</sup> 61,702 60,899 14,966 17,098	<sup>5</sup> 36,815 35,351 12,040 15,547	<sup>5</sup> 46,020 45,386 2,270 1,760	<sup>3</sup> 133,875 132,102 (NA) 20,814	<sup>4</sup> 9,510 9,401 (NA) 5,135	<sup>3</sup> 34,361 34,054 3,716 (NA)	<sup>3</sup> 88,021 86,808 12,634 (NA)	<sup>3</sup> 17,085 16,805 2,820 (NA)	<sup>3</sup> 44,394 43,792 20,200 28,603	13 14 15 16
36,768 6,067	8,143 1,054	16,860 2,252	1,193 404	1,971 422	1,240 380	2,845 531	52 52	566 359	2,787 702	300 88	614 135	17 18
35,364 7,938	4,863 687	11,544 2,482	1,204 401	1,853 389	1,208 574	2,664 891	178 69	393 86	1,794 581	491 211	744 142	19 20
1,592 1,429 632	528 127 89	385 586 80	87 87 36	78 54 53	91 52 4	294 158 (NA)	15 ... (NA)	70 ... 5	388 89 18	29 36 10	33 34 39	21 22 23
2,046 2,404 1,297	242 235 182	1,293 693 313	115 96 67	171 229 200	41 149 14	89 226 (NA)	32 30 (NA)	51 5 14	122 157 50	12 53 21	38 35 77	24 25 26
2,429 4,105 730	284 325 77	574 1,203 146	202 218 89	173 106 57	248 373 14	148 507 (NA)	5 39 (NA)	238 81 ...	192 335 10	47 122 11	64 73 159	27 28 29
170,407 147,266	(NA) 41,135	<sup>5</sup> 155,108 133,022	<sup>5</sup> 21,809 21,809	<sup>5</sup> 14,513 14,513	<sup>5</sup> 16,241 16,241	(NA) 51,238	(NA) 1,959	(NA) 16,161	(NA) 43,772	(NA) 6,828	(NA) 8,307	30 31
146,149 122,733	(NA) 22,739	<sup>5</sup> 108,772 86,960	<sup>5</sup> 16,081 16,081	<sup>5</sup> 11,871 11,871	<sup>5</sup> 10,734 10,734	(NA) 44,751	(NA) 1,387	(NA) 11,918	(NA) 26,347	(NA) 5,376	(NA) 6,897	32 33
111,255 90,715 17,064 19,437	32,103 17,103 3,850 (NA)	97,175 58,726 7,720 12,693	17,442 11,913 2,735 2,399	10,881 8,634 2,780 2,592	12,555 7,336 507 (NA)	38,894 32,622 (NA) (NA)	1,752 1,219 (NA) (NA)	12,411 7,638 (NA) (NA)	34,801 19,153 (NA) (NA)	5,370 3,963 (NA) (NA)	6,878 4,956 (NA) (NA)	34 35 36 37



## MINERAL INDUSTRIES—SUMMARY STATISTICS

Table 4.—Selected Statistics for Mineral Operations in the United States, by

(For explanation of column captions and for statement on the minimum size of establishments

	Major industry group, industry, and year	Number of oper- ating com- panies	Establishments, number				Value of net shipments and receipts <sup>2</sup>  (\$1,000)	Value added in mining  (\$1,000)	Number of persons engaged				Man-hours worked by production and development workers  (1,000)
			Total	Includ- ing mining opera- tions <sup>1</sup>	Includ- ing prepa- ration plants	Production and develop- ment workers			Other em- ployees <sup>3</sup>	Proprietors and firm members <sup>4</sup>			
										Total	Per- forming manual labor		
	Nonmetallic minerals mining-- Continued												
	Crushed and broken stone--Continued												
	Mineral industry only--Continued												
	Crushed and broken granite:												
1	1958.....	87	121	121	108	49,391	33,493	2,906	403	32	14	6,442	
2	1954.....	75	101	99	88	730,875	22,201	2,344	206	55	24	5,607	
3	1939.....	59	(NA)	79	74	7,030	5,042	2,100	232	22	10	4,574	
4	1929.....	(NA)	86	89	(NA)	6,751	4,871	2,066	(NA)	(NA)	(NA)	(NA)	
	Crushed and broken stone, nec:												
5	1958.....	334	378	371	318	106,054	77,927	5,587	1,100	203	98	12,078	
6	1954.....	273	363	369	312	7106,606	76,613	5,909	772	198	89	13,738	
7	1939.....	229	(NA)	262	233	17,412	12,891	4,355	507	79	34	8,891	
	Sand and gravel:												
8	1958:												
	Including operations in manufactures.....	3,690	4,084	4,071	2,758	622,885	497,864	33,171	(NA)	(NA)	(NA)	71,562	
9	Mineral industry only.....	3,350	3,703	3,690	2,758	552,206	434,468	30,630	6,418	2,957	1,592	66,480	
10	1954 (mineral industry only)....	3,340	3,931	3,949	3,309	455,464	356,729	30,533	5,933	3,523	1,913	70,103	
11	1939.....	1,253	1,569	1,563	1,528	79,403	61,935	16,959	2,818	796	290	35,785	
12	1929.....	(NA)	1,072	1,325	(NA)	112,447	89,235	18,061	3,967	268	(NA)	(NA)	
	Common sand and gravel (mineral subindustry only):												
13	1958.....	3,213	3,534	3,524	2,618	508,256	401,700	28,268	5,896	2,869	1,536	61,733	
14	1954.....	3,196	3,756	3,766	3,156	7435,662	334,046	28,423	5,667	3,408	1,852	65,600	
15	1939.....	1,129	1,383	1,380	1,383	69,130	53,870	14,584	2,445	711	253	31,324	
16	1929.....	(NA)	957	1,165	(NA)	102,312	81,159	15,994	3,672	249	(NA)	(NA)	
	Glass sand:												
17	1958.....	39	45	42	39	728,343	20,672	1,339	289	14	8	2,833	
18	1954.....	40	44	44	38	718,591	13,701	1,144	151	26	11	2,505	
19	1939.....	32	40	39	40	6,137	4,625	1,280	242	5	1	2,667	
20	1929.....	(NA)	25	32	(NA)	5,359	4,082	1,030	95	...	(NA)	(NA)	
	Molding sand:												
21	1958.....	98	124	124	101	716,373	12,096	1,023	233	74	48	1,914	
22	1954.....	105	131	139	115	711,762	8,982	966	115	89	50	1,998	
23	1939.....	97	146	144	105	4,136	3,440	1,095	131	80	36	1,794	
24	1929.....	(NA)	90	128	(NA)	4,776	3,994	1,037	200	19	(NA)	(NA)	
	Bentonite:												
25	1958.....	29	41	41	25	716,843	12,220	543	145	21	6	1,140	
26	1954.....	29	43	43	28	721,830	16,350	578	56	23	7	1,340	
27	1939.....	27	(NA)	29	20	1,982	1,463	357	62	4	1	687	
	Fire clay:												
28	1958:												
	Including operations in manufactures.....	235	317	317	31	32,759	25,848	2,084	(NA)	(NA)	(NA)	3,824	
29	Mineral industry only.....	136	182	182	31	18,421	14,540	1,279	194	122	59	2,214	
	1954:												
30	Including operations in manufactures.....	279	353	357	61	31,659	24,335	3,011	(NA)	(NA)	(NA)	5,542	
31	Mineral industry only.....	180	248	252	61	22,046	17,468	1,802	185	167	74	3,123	
32	1939.....	200	(NA)	306	44	7,178	6,168	3,655	255	108	41	5,642	
33	1929 <sup>10</sup> .....	(NA)	199	236	(NA)	10,753	8,469	4,139	363	72	(NA)	(NA)	
	Fuller's earth:												
34	1958.....	13	14	14	11	78,692	5,955	527	125	7	...	1,145	
35	1954.....	15	16	19	13	6,012	4,179	510	54	8	4	1,109	
36	1939.....	21	(NA)	22	18	2,107	1,402	562	116	2	...	1,051	
37	1929.....	(NA)	22	24	(NA)	4,812	3,589	991	105	...	...	(NA)	
38	Kaolin and ball clay:												
	1958.....	41	53	53	43	742,434	30,990	2,722	672	18	6	5,675	
	1954:												
39	Including operations in manufactures.....	48	62	69	38	34,410	26,748	2,843	(NA)	(NA)	(NA)	6,205	
40	Mineral industry only.....	40	54	61	38	31,878	25,249	2,820	328	19	7	6,159	
41	1939.....	75	(NA)	95	53	7,239	5,437	3,168	266	26	3	5,987	
	Feldspar:												
42	1958.....	64	74	74	12	6,433	4,531	496	71	52	44	1,028	
43	1954.....	58	84	110	22	6,239	4,048	579	37	84	70	1,235	
44	1939.....	47	(NA)	59	2	981	859	512	54	39	21	1,016	
45	1929.....	(NA)	51	58	(NA)	1,935	1,599	598	95	10	(NA)	(NA)	

See footnotes at end of table.

## GENERAL SUMMARY

1-21

## Major Industry Group and Industry: 1958, 1954, 1939, and 1929—Continued

included for each year, see Introduction. For 1929, excludes data for service industries)

Principal expenses designated below (\$1,000)						Capital expenditures (\$1,000)					Energy used <sup>3</sup>  (million kwh equivalent)	
Wages and salaries		Supplies and purchases for resale <sup>5</sup>	Purchased fuels <sup>5</sup>	Purchased elec- tricity <sup>5</sup>	Contract work <sup>5</sup>	Purchased machinery installed <sup>2</sup>  (\$1,000)	Develop- ment and explora- tion of mineral property <sup>4</sup>	Prepara- tion plant and other con- struction <sup>3</sup>	New machinery and equipment <sup>3</sup>	Used plant and equipment <sup>3</sup>		
Production and development workers	Other employees <sup>3</sup>											
10,771 7,573 1,782 2,162	2,204 1,306 573 (NA)	12,351 86,506 1,405 1,273	674 747 223 209	1,309 838 334 359	634 729 26 (NA)	5,838 3,041 (NA) (NA)	61 13 (NA) (NA)	948 844 75 (NA)	3,310 1,841 210 (NA)	384 489 50 (NA)	384 282 166 (NA)	1 2 3 4
25,240 24,445 4,806	6,828 4,330 1,138	23,496 1022,271 2,904	3,693 3,421 682	2,323 2,399 849	3,052 2,669 86	6,506 9,088 (NA)	146 155 (NA)	2,802 3,436 194	5,661 5,353 484	1,074 924 163	1,045 1,659 487	5 6 7
145,460 134,441 118,966 18,822 25,385	(NA) 37,885 28,347 6,393 11,630	596,036 88,753 61,617 8,493 12,946	525,342 25,342 21,373 4,632 4,452	514,099 14,099 21,373 3,805 5,353	515,367 15,367 14,692 538 461	(NA) 38,469 47,694 (NA) 7,963	(NA) 1,842 1,649 (NA) 62	(NA) 14,894 7,866 (NA) (NA)	(NA) 28,975 28,558 4,238 (NA)	(NA) 10,851 8,014 1,064 (NA)	(NA) 8,596 9,057 4,281 6,681	8 9 10 11 12
124,802 111,600 16,482 22,780	34,582 26,958 5,447 10,746	81,010 57,481 7,432 11,917	23,085 19,758 4,156 3,990	12,471 8,797 3,273 4,921	14,672 13,919 399 325	35,177 45,825 (NA) 7,174	1,808 1,573 (NA) ...	13,569 7,420 870 (NA)	26,634 27,254 3,752 (NA)	10,807 7,917 1,028 (NA)	7,249 7,978 3,645 5,832	13 14 15 16
5,730 4,279 1,456 1,314	1,767 819 600 278	85,520 3,208 747 675	1,265 840 322 282	1,084 807 366 305	145 166 77 15	2,360 965 (NA) 433	19 34 (NA) 50	1,012 258 124 (NA)	1,656 789 319 (NA)	16 15 5 (NA)	966 746 496 542	17 18 19 20
3,909 3,087 884 1,291	1,536 570 346 606	2,300 928 314 354	992 775 154 180	544 393 166 127	550 607 62 121	932 904 (NA) 356	15 42 (NA) 12	313 188 35 (NA)	685 515 167 (NA)	28 82 31 (NA)	381 333 140 307	21 22 23 24
1,996 1,920 309	889 215 137	2,406 2,916 396	720 468 59	390 305 26	1,181 1,829 38	1,009 604 (NA)	125 15 (NA)	4 81 15	946 392 63	8 154 40	576 369 81	25 26 27
8,606 4,989	1,031 1,031	55,148 2,118	51,090 1,090	5264 264	5830 830	(NA) 1,695	(NA) 189	(NA) 153	(NA) 1,562	(NA) 203	(NA) 382	28 29
9,783 5,670 3,366 3,758	(NA) 928 499 841	54,729 1,983 622 1,494	5639 639 115 525	5305 305 130 245	51,686 1,686 143 20	(NA) 1,292 (NA) 459	(NA) 79 (NA) 94	(NA) 184 34 (NA)	(NA) 925 112 (NA)	(NA) 139 41 (NA)	(NA) 300 127 944	30 31 32 33
1,673 1,381 438 853	726 363 308 303	1,754 840 374 425	748 538 164 385	270 218 95 62	281 223 72 351	263 539 (NA) 98	25 ... (NA) 90	231 84 17 (NA)	321 413 61 (NA)	2 28 7 (NA)	323 296 185 411	34 35 36 37
9,719	4,295	8,739	2,157	1,194	592	2,913	330	1,053	2,676	92	1,433	38
8,174 8,115 1,830	(NA) 1,828 637	54,609 4,576 896	51,524 1,524 530	5857 857 241	51,362 1,362 135	(NA) 2,601 (NA)	(NA) 109 (NA)	(NA) 1,449 203	(NA) 2,733 958	(NA) ... 59	(NA) 1,134 750	39 40 41
1,515 1,523 383 527	404 199 113 203	1,055 1,400 81 239	324 238 28 21	396 302 8 62	156 365 5 14	1,277 294 (NA) 28	22 36 (NA) 32	208 94 7 (NA)	1,053 259 37 (NA)	23 19 2 (NA)	127 102 6 25	42 43 44 45



## MINERAL INDUSTRIES—SUMMARY STATISTICS

Table 4.—Selected Statistics for Mineral Operations in the United States, by

(For explanation of column captions and for statement on the minimum size of establishments

	Major industry group, industry, and year	Number of oper- ating com- panies	Establishments, number			Value of net shipments and receipts <sup>2</sup>  (\$1,000)	Value added in mining  (\$1,000)	Number of persons engaged				Man-hours worked by production and development workers  (1,000)
			Total	Includ- ing mining opera- tions <sup>1</sup>	Includ- ing prepa- ration plants			Produc- tion and develop- ment workers	Other em- ployees <sup>3</sup>	Proprietors and firm members <sup>4</sup>		
										Total	Per- forming manual labor	
	Nonmetallic minerals mining-- Continued											
	Magnesite and brucite:											
1	1958.....	4	4	4	3	7,270	5,978	267	70	1	1	428
2	1954.....	4	4	4	1	1,655	1,372	121	11	1	1	237
3	1939.....	3	(NA)	4	1	1,396	1,289	216	12	...	...	437
4	1929.....	(NA)	5	5	(NA)	2,044	1,448	351	27	...	...	(NA)
	Clay and related minerals, nec:											
	1958:											
5	Including operations in manufactures.....	525	699	699	58	758,525	43,432	3,233	(NA)	(NA)	(NA)	6,804
6	Mineral industry only.....	109	122	122	58	722,004	13,154	1,464	198	51	30	3,267
	1954:											
7	Including operations in manufactures.....	674	801	802	84	739,038	29,109	3,653	(NA)	(NA)	(NA)	7,375
8	Mineral industry only.....	169	183	184	84	713,504	9,783	1,053	98	99	50	2,174
9	1939.....	524	(NA)	617	75	6,481	5,124	2,989	77	78	8	5,646
	Barite:											
10	1958.....	41	53	52	35	713,768	11,321	781	148	33	19	1,588
11	1954.....	36	42	45	35	18,269	14,051	1,036	89	35	18	2,403
12	1939.....	37	(NA)	47	32	2,065	1,652	792	62	16	4	1,439
13	1929.....	(NA)	(NA)	44	(NA)	1,802	1,489	844	71	9	(NA)	(NA)
	Fluorspar:											
14	1958.....	50	55	51	27	16,639	12,653	1,044	191	66	27	2,105
15	1954.....	94	104	105	33	13,733	9,914	997	263	114	82	2,001
16	1939.....	60	(NA)	61	53	3,397	2,655	1,287	109	49	13	2,568
17	1929.....	(NA)	28	36	(NA)	2,858	2,038	1,053	118	13	(NA)	(NA)
	Potash, soda, borate minerals:											
18	1958.....	18	21	21	17	7141,115	111,082	4,590	2,071	3	...	9,212
19	1954.....	15	20	20	16	7107,757	82,213	4,738	1,584	1	...	9,381
20	1939.....	15	(NA)	17	13	17,031	13,330	2,049	389	6	1	4,388
	Phosphate rock:											
21	1958.....	43	65	52	44	99,109	64,375	3,955	1,438	27	14	8,255
22	1954.....	53	75	73	54	82,583	62,089	4,579	861	44	21	10,119
23	1939.....	33	(NA)	40	50	12,286	9,003	3,372	382	12	...	6,680
24	1929.....	(NA)	26	33	(NA)	13,044	9,497	3,201	305	2	(NA)	(NA)
	Rock salt:											
25	1958.....	18	22	22	21	741,813	34,073	1,602	382	7	4	3,508
26	1954.....	11	15	15	13	35,581	30,013	1,659	266	3	1	3,861
27	1939.....	17	(NA)	17	17	6,896	5,721	1,380	181	4	4	2,608
	Sulfur:											
28	1958.....	14	24	24	5	106,202	94,063	2,303	1,374	2	...	4,644
29	1954.....	12	20	16	5	140,685	124,166	3,077	1,018	...	...	6,229
30	1939.....	8	(NA)	10	2	31,812	28,863	1,517	507	1	1	3,031
31	1929.....	(NA)	9	10	(NA)	37,126	29,302	2,199	305	1	(NA)	(NA)
	Chemical-fertilizer mining, nec:											
32	1958.....	28	31	21	21	79,643	7,586	557	120	5	2	1,093
33	1954.....	36	39	24	29	721,780	18,074	1,209	233	15	7	2,424
34	1939.....	8	7	4	4	602	458	189	15	5	1	348
	Nonmetallic minerals services:											
35	1958.....	74	75	xxx	xxx	7,934	6,217	1,037	72	79	44	1,893
36	1954.....	62	62	xxx	xxx	6,301	4,884	614	25	67	26	1,258
37	1939.....	65	65	xxx	xxx	966	725	307	28	68	27	632
	Gypsum:											
	1958:											
38	Including operations in manufactures.....	36	64	64	19	34,172	29,753	1,219	(NA)	(NA)	(NA)	2,506
39	Mineral industry only.....	29	32	32	19	7,048	5,958	354	52	20	10	776
	1954:											
40	Including operations in manufactures.....	38	64	61	22	731,861	27,642	1,428	(NA)	(NA)	(NA)	2,984
41	Mineral industry only.....	34	37	34	22	76,631	5,352	399	50	21	7	926
42	1939.....	34	(NA)	59	25	4,569	3,756	1,327	97	7	...	2,466
43	1929.....	(NA)	60	63	(NA)	5,740	4,516	2,078	134	2	(NA)	(NA)
	Mica:											
44	1958.....	142	149	149	56	6,216	4,974	649	78	189	115	1,204
45	1954.....	446	498	510	444	4,092	3,284	668	42	549	432	1,196
46	1939.....	22	(NA)	21	10	327	276	190	20	11	7	361
47	1929.....	(NA)	24	32	(NA)	516	415	226	23	1	(NA)	(NA)

See footnotes at end of table.

## Major Industry Group and Industry: 1958, 1954, 1939, and 1929—Continued

included for each year, see Introduction. For 1929, excludes data for service industries)

Principal expenses designated below (\$1,000)						Purchased machinery installed <sup>3</sup>  (\$1,000)	Capital expenditures (\$1,000)					Energy used <sup>3</sup>  (million kwh equivalent)	
Wages and salaries		Supplies and purchases for resale <sup>5</sup>	Purchased fuels <sup>5</sup>	Purchased elec- tricity <sup>5</sup>	Contract work <sup>5</sup>		Develop- ment and explora- tion of mineral property <sup>4</sup>	Prepara- tion plant and other con- struction <sup>3</sup>	New machinery and equipment <sup>3</sup>	Used plant and equipment <sup>3</sup>			
Production and development workers	Other employees <sup>3</sup>												
1,386 469 300 466	539 70 24 88	1,010 212 80 252	794 32 5 231	220 39 11 57	143 ... 11 56	114 17 (NA) 44	... ... (NA) 24	934 ... 1 (NA)	55 17 38 (NA)	... ... 1 (NA)	391 16 2 247	1 2 3 4	
12,656 5,602	(NA) 1,393	<sup>5</sup> 10,698 4,455	<sup>5</sup> 3,772 3,772	<sup>5</sup> 851 851	<sup>5</sup> 681 681	(NA) 2,073	(NA) 62	(NA) 902	(NA) 1,885	(NA) 133	(NA) 2,245	5 6	
11,474 3,412 2,861	(NA) 411 125	<sup>5</sup> 7,829 <sup>5</sup> 1,621 647	<sup>5</sup> 1,212 1,212 392	<sup>5</sup> 389 389 219	<sup>5</sup> 1,190 1,190 99	(NA) 1,161 (NA)	(NA) 48 (NA)	(NA) 699 41	(NA) 970 164	(NA) 135 86	(NA) 1,126 425	7 8 9	
2,698 3,451 597 648	704 423 155 186	<sup>5</sup> 1,953 2,251 246 155	281 327 94 58	554 552 52 76	381 850 21 24	251 1,250 (NA) 154	204 24 (NA) 12	426 78 31 (NA)	307 853 57 (NA)	36 57 39 (NA)	198 269 56 84	10 11 12 13	
4,336 3,451 1,134 1,112	1,280 1,415 228 290	2,504 2,195 506 626	563 495 118 153	594 513 61 24	1,127 804 57 17	764 561 (NA) 140	627 140 (NA) 157	160 145 106 (NA)	702 429 429 (NA)	77 35 27 (NA)	379 380 358 387	14 15 16 17	
26,746 23,028 3,445	14,321 10,411 1,311	<sup>5</sup> 22,643 <sup>5</sup> 17,329 2,036	7,144 5,594 1,425	3,026 1,641 198	1,677 1,646 42	6,936 8,390 (NA)	608 525 (NA)	1,557 1,599 377	8,994 6,866 675	234 66 16	8,452 5,812 2,231	18 19 20	
17,185 17,089 2,871 3,304	10,025 4,440 858 778	12,776 11,917 1,505 1,543	3,562 3,348 826 891	6,729 5,507 951 1,092	2,395 2,904 23 21	6,095 8,156 (NA) 805	426 1,083 (NA) 190	307 2,484 109 (NA)	4,916 7,662 425 (NA)	53 109 46 (NA)	3,120 2,990 1,513 1,648	21 22 23 24	
7,937 7,117 1,434	3,059 1,454 540	<sup>5</sup> 7,363 5,351 868	311 335 153	455 367 151	93 244 3	2,125 1,534 (NA)	9 53 (NA)	480 873 149	2,118 1,259 143	... 1 69	416 549 336	25 26 27	
13,267 14,619 2,545 3,483	11,303 6,567 1,911 955	7,363 14,055 1,690 3,340	6,440 5,629 1,128 4,433	45 44 15 41	7,496 2,833 116 10	7,077 2,803 (NA) 1,634	16,282				11,819 12,854 4,129 7,318	28 29 30 31	
2,358 4,569 204	757 1,357 37	<sup>5</sup> 2,005 <sup>5</sup> 3,775 95	131 193 7	238 394 34	165 439 8	125 3,360 (NA)	607				80 223 6	32 33 34	
3,038 2,214 320	484 113 48	1,289 1,088 124	379 354 113	51 11 4	146 213 (NA)	700 402 (NA)	xxx xxx xxx	74 19	705 306	69 56	105 96 (NA)	35 36 37	
5,264 1,481	(NA) 324	<sup>5</sup> 4,304 975	<sup>5</sup> 166 166	<sup>5</sup> 118 118	<sup>5</sup> 73 73	(NA) 578	(NA) 28	(NA) 69	(NA) 682	(NA) 41	(NA) 74	38 39	
5,572 1,567 1,640 2,628	(NA) 285 217 307	<sup>5</sup> 8,864 <sup>5</sup> 8,924 624 795	<sup>5</sup> 171 171 37 137	<sup>5</sup> 140 140 146 285	<sup>5</sup> 72 72 6 7	(NA) 2,395 (NA) 578	(NA) 13 (NA) 127	(NA) 48 27 (NA)	(NA) 402 254 (NA)	(NA) 1,960 22 (NA)	(NA) 85 29 172	40 41 42 43	
1,709 1,255 118 195	298 87 20 58	995 564 25 65	336 151 10 18	206 132 16 18	304 347 ... ...	577 474 (NA) 6	315 255 (NA) 14	218 188 1 (NA)	434 321 6 (NA)	204 96 2 (NA)	115 58 6 20	44 45 46 47	



## MINERAL INDUSTRIES—SUMMARY STATISTICS

Table 4.—Selected Statistics for Mineral Operations in the United States, by

(For explanation of column captions and for statement on the minimum size of establishments

Major industry group, industry, and year		Number of oper- ating com- panies	Establishments, number			Value of net shipments and receipts <sup>2</sup>  (\$1,000)	Value added in mining  (\$1,000)	Number of persons engaged				Man-hours worked by production and development workers  (1,000)	
			Total	Includ- ing mining opera- tions <sup>1</sup>	Includ- ing prepa- ration plants			Produc- tion and develop- ment workers	Other em- ployees <sup>3</sup>	Proprietors and firm members <sup>4</sup>			
										Total	Per- forming manual labor		
Nonmetallic minerals mining-- Continued													
Native asphalt and bitumens:													
1	1958.....	8	10	10	9	8,041	5,954	367	97	4	...	732	
2	1954.....	9	12	12	8	6,424	4,857	451	100	12	3	987	
3	1939.....	23	(NA)	23	15	2,968	2,554	730	123	7	1	1,330	
4	1929.....	(NA)	21	25	(NA)	5,124	4,345	1,123	183	1	(NA)	(NA)	
Pumice and pumicite:													
5	1958.....	63	64	64	28	5,002	4,058	271	45	34	12	409	
6	1954.....	73	75	75	47	73,393	2,741	223	44	59	35	440	
7	1939.....	15	17	17	14	387	301	122	5	12	5	197	
Talc, soapstone, and pyrophyllite:													
8	1958.....	43	64	64	23	714,908	11,755	1,123	171	34	17	2,289	
9	1954.....	54	68	75	39	11,563	9,486	1,297	174	30	14	2,778	
10	1939.....	29	(NA)	38	26	3,269	2,441	970	167	17	10	2,068	
11	1929.....	(NA)	25	28	(NA)	2,688	2,012	550	82	...	...	(NA)	
Natural abrasives, except sand:													
12	1958.....	20	20	20	16	3,373	2,648	204	25	16	8	408	
13	1954.....	22	22	22	14	3,490	2,874	197	21	16	4	403	
14	1939.....	27	(NA)	36	25	1,335	1,115	383	60	12	3	798	
Peat:													
15	1958.....	80	81	81	60	4,370	3,640	335	54	59	47	613	
16	1954.....	86	88	87	68	2,326	1,800	321	32	69	42	637	
17	1939.....	23	(NA)	25	23	378	338	157	27	11	4	246	
Nonmetallic minerals, nec:													
18	1958.....	47	55	55	39	731,611	23,368	1,344	447	21	8	3,018	
19	1954.....	63	70	75	57	24,595	17,437	1,374	394	33	14	2,703	
20	1939.....	38	(NA)	37	30	3,041	2,153	630	104	16	5	1,395	

NA Not available.

<sup>1</sup>For 1954 and earlier years, except for the Crude Petroleum and Natural Gas Industry, represents number of mines. In addition, for 1954, about 1,400 oil and gas field service establishment reports included oil or gas mining operations as a secondary activity. The comparable figure for 1939 is not available.

<sup>2</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same manufacturing establishment in making manufactured products.

<sup>3</sup>For 1958 and 1954, excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

<sup>4</sup>For 1958, excludes data for all mining operations in manufacturing establishments. For 1954, see footnote 3.

<sup>5</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments in 1958 and 1954, the cost of purchased fuels, purchased electricity, and contract work is included with the cost of supplies.

## GENERAL SUMMARY

1-25

## Major Industry Group and Industry: 1958, 1954, 1939, and 1929—Continued

included for each year, see Introduction. For 1929, excludes data for service industries)

Principal expenses designated below (\$1,000)						Purchased machinery installed <sup>3</sup>  (\$1,000)	Capital expenditures (\$1,000)					Energy used <sup>2</sup>  (million kwh equivalent)	
Wages and salaries		Supplies and purchases for resale <sup>5</sup>	Purchased fuels <sup>5</sup>	Purchased elec- tricity <sup>5</sup>	Contract work <sup>5</sup>		Develop- ment and explora- tion of mineral property <sup>4</sup>	Prepara- tion plant and other con- struction <sup>3</sup>	New machinery and equipment <sup>3</sup>	Used plant and equipment <sup>3</sup>			
Production and development workers	Other employees <sup>3</sup>												
1,398	867	1,538	79	270	406	517	175	19	510	19	50	1	
1,443	704	1,251	137	85	170	476	114	24	402	12	66	2	
608	284	517	68	28	1	(NA)	(NA)	26	72	17	125	3	
1,255	586	518	138	39	84	182	39	(NA)	(NA)	182	285	4	
907	196	760	270	68	159	267	54	212	205	109	111	5	
748	214	<sup>a</sup> 334	119	40	276	298	32	98	99	186	56	6	
119	7	45	30	11	...	(NA)	(NA)	4	9	4	19	7	
4,157	1,163	<sup>a</sup> 2,428	291	547	276	509	128	169	482	119	153	8	
4,141	799	1,671	238	467	412	486	300	453	407	37	133	9	
807	382	619	45	162	2	(NA)	(NA)	62	65	38	53	10	
615	217	531	29	99	17	35	57	(NA)	(NA)	(NA)	59	11	
801	206	513	181	22	70	88	1	42	106	...	73	12	
698	187	504	161	33	139	73	10	240	74	8	75	13	
346	133	149	50	21	...	(NA)	(NA)	30	51	7	109	14	
974	308	762	174	34	134	446	137	111	455	108	79	15	
829	111	321	174	31	46	159	34	43	104	24	87	16	
101	43	21	15	4	...	(NA)	(NA)	8	10	8	7	17	
5,950	2,660	<sup>a</sup> 6,264	1,239	915	1,144	2,869	198	982	2,729	279	716	18	
5,258	2,062	4,649	967	722	1,336	1,441	109	820	1,001	27	620	19	
636	209	593	159	128	8	(NA)	(NA)	(NA)	64	4	197	20	

<sup>a</sup>Excludes data for the Uranium-Radium-Vanadium Ores Industry.<sup>7</sup>Represents gross value of shipments and receipts.<sup>8</sup>Includes the cost of minerals received for preparation.<sup>9</sup>Excludes data for common clay and shale operations.<sup>10</sup>Represents combined figures for the Fire Clay Industry, the Kaolin and Ball Clay Industry, and the Clay and Related Minerals, NEC, Industry.<sup>11</sup>Except for number of establishments, excludes data for 2 lithium minerals mines.



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 5.—General Statistics for Mineral Operations, by Divisions,

(For explanation of column captions see Introduction. For more detailed historical statistics

	Division, State, and year	Establishments, number		All employees		Production and development workers		
		Total <sup>3</sup>	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)
	UNITED STATES							
1	Mineral industries only:							
2	1958.....	36,218	6,029	732,632	3,740,288	564,281	1,077,864	2,616,273
	1954.....	37,446	6,194	785,708	3,385,722	647,141	1,248,898	2,572,297
3	Including operations in manufactures:							
4	1958.....	37,784	6,279	753,537	3,826,692	584,012	1,116,774	2,695,588
5	1954 <sup>7</sup> .....	38,663	6,456	805,968	3,456,979	666,621	1,288,461	2,639,378
	1939 <sup>8</sup> .....	25,023	(NA)	856,389	1,174,771	774,130	1,287,852	970,546
	DIVISIONS AND STATES							
	New England:							
	Mineral industries only:							
6	1958.....	344	39	3,616	17,477	2,745	5,744	11,760
7	1954.....	385	40	4,069	15,683	3,456	7,581	12,434
8	Including operations in manufactures:							
9	1958.....	443	58	6,521	29,670	5,230	10,852	21,527
10	1954 <sup>7</sup> .....	456	56	6,001	23,142	5,215	11,149	18,950
	1939 <sup>8</sup> .....	332	(NA)	4,944	6,603	4,272	8,659	4,863
	Maine:							
11	1958.....	68	7	580	2,000	530	1,079	1,804
12	1954 <sup>7</sup> .....	77	10	699	2,268	653	1,330	2,060
13	1939 <sup>8</sup> .....	34	(NA)	420	448	379	659	376
	New Hampshire:							
14	1958.....	45	4	328	1,534	282	579	1,166
15	1954 <sup>7</sup> .....	44	4	319	1,108	285	574	918
16	1939 <sup>8</sup> .....	25	(NA)	307	353	266	535	266
	Vermont:							
17	1958.....	67	16	2,571	10,019	2,157	4,445	7,935
18	1954 <sup>7</sup> .....	62	16	2,050	7,445	1,881	4,009	6,524
19	1939 <sup>8</sup> .....	77	(NA)	1,695	2,016	1,574	3,148	1,719
	Massachusetts:							
20	1958.....	144	15	1,903	10,281	1,357	2,826	6,348
21	1954 <sup>7</sup> .....	148	16	1,907	8,074	1,609	3,382	6,291
22	1939 <sup>8</sup> .....	112	(NA)	1,568	2,528	1,206	2,512	1,486
	Rhode Island:							
23	1958.....	22	4	212	897	174	322	704
24	1954 <sup>7</sup> .....	21	3	163	565	140	274	461
25	1939 <sup>8</sup> .....	21	(NA)	248	323	212	435	262
	Connecticut:							
26	1958.....	97	12	927	4,939	730	1,601	3,570
27	1954 <sup>7</sup> .....	104	7	833	3,682	647	1,580	2,696
28	1939 <sup>8</sup> .....	63	(NA)	706	935	635	1,370	754
	Middle Atlantic:							
	Mineral industries only:							
29	1958.....	4,500	636	87,398	418,758	72,795	124,374	324,407
30	1954.....	5,320	782	120,795	483,943	105,017	177,172	392,232
31	Including operations in manufactures:							
32	1958.....	4,750	683	90,387	431,426	75,702	130,121	336,614
33	1954 <sup>7</sup> .....	5,541	842	124,321	497,033	108,461	184,141	404,916
	1939 <sup>8</sup> .....	3,953	(NA)	219,481	297,502	203,871	317,732	259,280
	New York:							
34	1958.....	622	82	10,460	60,533	7,177	15,142	37,400
35	1954 <sup>7</sup> .....	694	80	12,364	66,310	8,469	18,612	38,544
36	1939 <sup>8</sup> .....	518	(NA)	8,737	15,430	7,044	14,682	9,696
	New Jersey:							
37	1958.....	150	44	3,859	19,955	2,923	5,814	13,836
38	1954 <sup>7</sup> .....	166	41	4,190	18,769	3,543	7,948	15,172
39	1939 <sup>8</sup> .....	137	(NA)	3,978	5,926	3,369	6,451	4,344
	Pennsylvania:							
40	1958.....	3,978	557	76,068	350,938	65,602	109,165	285,378
41	1954 <sup>7</sup> .....	4,681	721	107,767	411,954	96,449	157,581	351,200
42	1939 <sup>8</sup> .....	3,298	(NA)	206,766	276,146	193,458	296,599	245,270

See footnotes at end of table.

## GENERAL SUMMARY

1-27

States, Alaska, and Hawaii: 1958, 1954, and 1939

by State, see the General Summary Report of the 1954 Census of Mineral Industries, Vol. I.)

Value added in mining (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts <sup>1</sup> (\$1,000)	Capital expenditures <sup>2</sup> (\$1,000)	Energy used <sup>2</sup> (kwh equivalent)		
	Supplies, purchases for re-sale, and purchased fuels and electricity <sup>4</sup>	Minerals received for preparation	Contract work <sup>4</sup>	Purchased machinery installed <sup>2</sup>			Total (million)	Per production worker (1,000)	
13,381,494 <sup>5</sup> 11,546,418	2,879,669 2,345,883	1,756,454 <sup>5</sup> 6708,809	1,854,770 1,826,738	1,015,257 1,213,108	18,089,834 <sup>5</sup> 14,906,583	2,797,810 2,723,756	404,935 372,524	718 576	1 2
13,680,973 <sup>5</sup> 11,740,054 2,765,396	2,938,586 2,390,951 438,190	1,758,380 <sup>5</sup> 6710,321 (NA)	1,855,630 1,827,372 210,368	1,017,571 1,214,881 (NA)	18,450,826 <sup>5</sup> 15,147,297 3,413,954	2,800,314 2,725,665 (NA)	405,414 373,126 224,898	693 560 291	3 4 5
32,301 32,104	11,496 8,808	122 135	1,392 1,166	2,693 3,404	44,034 41,325	3,970 4,292	711 541	259 157	6 7
53,958 46,785 14,415	16,416 11,861 3,362	550 454 (NA)	1,603 1,361 37	3,374 3,715 (NA)	71,232 59,559 17,814	4,669 4,617 (NA)	874 638 404	167 122 95	8 9 10
4,382 4,304 1,134	<sup>9</sup> 1,419 848 143	( <sup>9</sup> ) 121 (NA)	82 91 2	280 327 (NA)	5,703 5,242 1,279	460 449 (NA)	90 46 16	170 70 42	11 12 13
2,751 1,913 777	<sup>11</sup> 823 .. <sup>5</sup> 565 126	112 51 (NA)	<sup>11</sup> 195 66 ...	<sup>15</sup> 174 188 (NA)	3,858 2,510 903	<sup>15</sup> 224 273 (NA)	<sup>15</sup> 34 29 18	121 102 68	14 15 16
15,766 15,512 (NA)	<sup>9</sup> 5,454 4,367 1,207	( <sup>9</sup> ) 44 (NA)	335 589 6	861 744 (NA)	21,172 20,415 6,243	1,244 841 (NA)	291 209 93	135 111 59	17 18 19
18,656 14,719 4,610	5,024 3,684 983	... 201 (NA)	417 292 6	988 1,696 (NA)	23,831 18,866 5,599	1,254 1,726 (NA)	264 185 157	195 115 130	20 21 22
1,863 1,109 623	<sup>11</sup> 498 372 203	( <sup>11</sup> ) ... (NA)	<sup>11</sup> 56 21 2	<sup>15</sup> 161 166 (NA)	2,382 1,447 828	<sup>15</sup> 222 221 (NA)	<sup>15</sup> 29 26 25	167 186 118	23 24 25
10,540 9,228 2,241	3,737 2,025 700	10 37 (NA)	407 302 21	766 594 (NA)	14,286 11,079 2,962	1,174 1,107 (NA)	162 143 95	222 221 150	26 27 28
733,341 <sup>5</sup> 767,134	208,131 189,381	<sup>5</sup> 164,191 <sup>5</sup> 6177,420	81,853 102,288	65,188 68,629	1,160,015 1,229,313	92,689 75,539	14,926 19,300	205 184	29 30
779,189 <sup>5</sup> 797,698 428,317	216,227 198,416 83,386	<sup>5</sup> 164,236 <sup>5</sup> 6177,431 (NA)	81,874 102,367 17,539	<sup>10</sup> 65,407 68,717 (NA)	1,213,971 <sup>5</sup> 1,268,938 529,242	<sup>10</sup> 92,962 75,691 (NA)	14,958 19,360 30,072	198 178 148	31 32 33
129,591 104,719 32,817	31,925 28,672 6,982	4,979 340 (NA)	4,038 5,028 1,431	6,058 12,234 (NA)	163,658 138,508 41,230	12,933 12,485 (NA)	2,772 3,268 1,700	386 386 241	34 35 36
40,663 <sup>5</sup> 38,941 11,103	11,974 11,301 2,926	80 <sup>5</sup> 482 (NA)	830 1,283 95	<sup>10</sup> 2,311 3,477 (NA)	51,961 <sup>5</sup> 51,455 14,124	<sup>10</sup> 3,897 4,029 (NA)	655 699 652	224 197 194	37 38 39
608,935 654,038 384,397	172,328 158,443 73,478	159,177 <sup>6</sup> 176,609 (NA)	77,006 96,056 16,013	57,038 53,006 (NA)	998,352 1,078,975 473,888	76,132 59,177 (NA)	11,531 15,393 27,720	176 143 134	40 41 42



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 5.—General Statistics for Mineral Operations, by Divisions,

	Division, State, and year	Establishments, number		All employees		Production and development workers		
		Total <sup>3</sup>	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)
	DIVISIONS AND STATES—Continued							
	East North Central:							
	Mineral industries only:							
1	1958.....	4,313	659	74,732	385,398	60,937	114,357	292,921
2	1954.....	4,636	897	81,411	349,426	69,142	131,846	280,043
	Including operations in manufactures:							
3	1958.....	4,662	712	78,967	404,040	64,974	122,056	310,336
4	1954 <sup>7</sup> .....	4,912	953	86,251	367,576	73,815	141,163	297,258
5	1939 <sup>8</sup> .....	3,989	(NA)	107,980	142,184	98,084	161,491	119,026
	Ohio:							
6	1958.....	1,599	210	22,268	114,990	17,359	32,686	79,924
7	1954 <sup>7</sup> .....	1,793	220	23,742	98,839	19,510	37,247	74,881
8	1939 <sup>8</sup> .....	1,407	(NA)	27,343	33,852	24,948	41,312	28,749
	Indiana:							
9	1958.....	781	109	10,418	50,579	8,591	15,783	38,547
10	1954 <sup>7</sup> .....	815	113	11,039	45,112	9,576	17,863	36,443
11	1939 <sup>8</sup> .....	576	(NA)	12,396	15,854	11,398	18,542	13,671
	Illinois:							
12	1958.....	1,375	258	27,482	144,359	23,218	43,891	114,715
13	1954 <sup>7</sup> .....	1,384	479	30,494	128,189	26,964	49,370	108,516
14	1939 <sup>8</sup> .....	1,233	(NA)	48,887	65,418	44,422	68,509	54,325
	Michigan:							
15	1958.....	574	91	14,672	74,712	12,210	22,699	60,782
16	1954 <sup>7</sup> .....	591	98	16,693	77,342	13,991	28,762	62,160
17	1939 <sup>8</sup> .....	620	(NA)	17,032	23,943	15,223	28,951	19,677
	Wisconsin:							
18	1958.....	333	44	4,127	19,400	3,596	6,997	16,368
19	1954 <sup>7</sup> .....	329	43	4,283	18,094	3,774	7,921	15,258
20	1939 <sup>8</sup> .....	153	(NA)	2,322	3,117	2,093	4,177	2,604
	West North Central:							
	Mineral industries only:							
21	1958.....	3,221	452	50,928	253,055	38,591	76,427	174,836
22	1954.....	3,320	470	51,567	213,366	43,170	86,965	167,642
	Including operations in manufactures:							
23	1958.....	3,384	484	53,600	264,617	41,081	81,570	184,952
24	1954 <sup>7</sup> .....	3,435	499	54,163	223,255	45,589	92,437	176,690
25	1939 <sup>8</sup> .....	2,242	(NA)	44,826	59,270	39,593	70,332	46,611
	Minnesota:							
26	1958.....	317	96	18,164	101,547	12,600	24,207	63,039
27	1954 <sup>7</sup> .....	300	88	17,756	78,444	14,499	27,923	58,942
28	1939 <sup>8</sup> .....	178	(NA)	8,145	13,385	6,866	13,215	9,987
	Iowa:							
29	1958.....	335	44	3,146	13,620	2,689	5,884	10,863
30	1954 <sup>7</sup> .....	364	34	2,974	10,505	2,677	6,049	9,295
31	1939 <sup>8</sup> .....	383	(NA)	5,928	6,059	5,589	8,595	5,489
	Missouri:							
32	1958.....	469	80	9,331	41,659	7,145	13,826	29,553
33	1954 <sup>7</sup> .....	485	83	8,854	34,490	7,548	15,419	27,621
34	1939 <sup>8</sup> .....	491	(NA)	10,861	12,666	9,320	16,529	8,968
	North Dakota:							
35	1958.....	172	25	1,967	10,737	1,564	3,477	8,056
36	1954 <sup>7</sup> .....	147	26	1,798	8,619	1,399	2,956	6,319
37	1939 <sup>8</sup> .....	108	(NA)	960	1,042	874	1,724	871
	South Dakota:							
38	1958.....	142	16	2,742	13,322	2,378	4,951	11,258
39	1954 <sup>7</sup> .....	191	25	3,001	12,254	2,606	5,872	10,321
40	1939 <sup>8</sup> .....	59	(NA)	2,922	5,542	2,647	5,988	4,690
	Nebraska:							
41	1958.....	317	29	2,181	9,571	1,818	3,629	7,624
42	1954 <sup>7</sup> .....	259	22	1,734	6,960	1,531	3,450	6,062
43	1939 <sup>8</sup> .....	67	(NA)	531	451	470	1,041	365

See footnotes at end of table.

## GENERAL SUMMARY

1-29

States; Alaska, and Hawaii: 1958, 1954, and 1939—Continued

Value added in mining (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts <sup>1</sup> (\$1,000)	Capital expenditures <sup>2</sup> (\$1,000)	Energy used <sup>2</sup> (kwh equivalent)		
	Supplies, purchases for re-sale, and purchased fuels and electricity <sup>4</sup>	Minerals received for preparation	Contract work <sup>4</sup>	Purchased machinery installed <sup>2</sup>			Total (million)	Per production worker (\$1,000)	
936,363	245,385	130,043	66,048	73,860	1,324,808	126,891	18,184	298	1
813,435	198,264	<sup>6</sup> 60,623	81,106	99,520	1,094,500	158,448	16,318	236	2
994,314	256,869	130,069	66,267	<sup>10</sup> 74,453	1,394,462	<sup>10</sup> 127,510	18,317	282	3
852,741	207,177	<sup>6</sup> 60,659	81,202	100,208	1,142,879	159,108	16,597	225	4
316,939	56,604	(NA)	28,744	(NA)	402,287	(NA)	18,071	184	5
213,647	67,452	29,599	12,844	19,228	313,654	29,116	2,927	169	6
184,097	48,003	<sup>6</sup> 10,735	11,249	19,844	249,145	24,783	2,790	143	7
51,914	10,843	(NA)	1,473	(NA)	64,230	(NA)	2,715	109	8
117,928	30,468	2,372	6,220	12,922	154,118	15,792	1,724	201	9
98,331	25,502	18,429	6,589	13,270	145,816	16,305	1,506	157	10
28,094	7,955	(NA)	1,338	(NA)	37,387	(NA)	1,888	166	11
462,230	100,060	81,294	28,071	31,155	649,841	52,969	8,648	372	12
378,595	77,986	<sup>6</sup> 23,804	41,728	38,327	496,815	63,625	7,909	293	13
165,538	23,710	(NA)	22,406	(NA)	211,654	(NA)	8,705	196	14
165,464	45,504	15,783	17,070	<sup>10</sup> 8,450	227,286	<sup>10</sup> 24,985	4,304	352	15
153,036	42,609	<sup>6</sup> 6,922	20,116	23,520	199,440	46,763	3,669	262	16
64,933	12,162	(NA)	3,509	(NA)	80,604	(NA)	4,525	297	17
35,045	13,385	1,021	2,062	2,698	49,563	4,648	714	199	18
38,682	13,077	769	1,520	5,247	51,663	7,632	723	192	19
6,460	1,934	(NA)	18	(NA)	8,412	(NA)	238	114	20
918,673	225,172	93,109	106,445	69,131	1,267,166	145,078	23,645	613	21
<sup>9</sup> 785,763	174,159	<sup>6</sup> 10,280	130,828	104,617	<sup>5</sup> 1,006,491	199,102	18,610	431	22
956,496	<sup>11</sup> 235,115	<sup>11</sup> 93,109	106,445	<sup>10</sup> 69,326	1,315,218	<sup>10</sup> 145,273	23,715	577	23
<sup>9</sup> 813,247	182,462	<sup>6</sup> 11,252	131,039	104,929	<sup>5</sup> 1,043,418	199,457	18,697	410	24
213,735	26,298	(NA)	12,936	(NA)	252,969	(NA)	7,324	185	25
319,677	78,944	29,743	10,993	7,583	431,635	15,305	7,878	625	26
293,990	58,948	5,138	30,771	25,800	350,424	64,223	2,713	187	27
91,572	7,258	(NA)	106	(NA)	98,936	(NA)	1,715	250	28
41,102	12,936	368	2,113	<sup>15</sup> 4,467	54,633	<sup>15</sup> 6,353	941	350	29
27,316	10,395	14	1,526	3,731	39,177	3,805	682	255	30
8,963	1,827	(NA)	54	(NA)	10,844	(NA)	201	36	31
78,292	<sup>9</sup> 26,314	( <sup>9</sup> )	3,260	8,881	103,286	13,461	1,312	184	32
<sup>5</sup> 68,571	18,676	<sup>5</sup> 2,459	2,869	6,160	<sup>5</sup> 92,869	5,888	1,260	167	33
21,036	6,077	(NA)	259	(NA)	27,372	(NA)	786	84	34
40,410	<sup>9</sup> 20,247	( <sup>9</sup> )	21,411	9,579	65,732	25,915	805	515	35
<sup>5</sup> 7,151	<sup>5</sup> <sup>6</sup> <sup>9</sup> 9,542	( <sup>9</sup> )	20,305	14,008	<sup>5</sup> 28,694	22,312	745	533	36
2,027	471	(NA)	5	(NA)	2,503	(NA)	180	206	37
26,256	<sup>9</sup> 10,505	( <sup>9</sup> )	782	1,583	36,544	2,582	489	206	38
<sup>5</sup> 23,333	7,780	<sup>5</sup> 92	2,273	2,114	<sup>5</sup> 32,454	3,562	766	294	39
20,689	2,172	(NA)	21	(NA)	22,882	(NA)	557	210	40
65,871	<sup>9</sup> 14,852	( <sup>9</sup> )	11,521	<sup>15</sup> 5,322	83,253	<sup>15</sup> 14,313	1,457	801	41
30,082	<sup>6</sup> <sup>9</sup> 7,651	( <sup>9</sup> )	8,659	8,395	38,400	16,387	692	452	42
930	348	(NA)	73	(NA)	1,351	(NA)	56	119	43



## MINERAL INDUSTRIES—SUMMARY STATISTICS

Table 5.—General Statistics for Mineral Operations, by Divisions,

	Division, State, and year	Establishments, number		All employees		Production and development workers		
		Total <sup>3</sup>	With 20 or more employees	Number	Payroll	Number	Man-hours	Wages
					(\$1,000)			
	DIVISIONS AND STATES—Continued							
	West North Central—Continued							
	Kansas:							
1	1958.....	1,632	194	16,069	74,161	12,887	25,596	54,559
2	1954 <sup>7</sup> .....	1,689	221	18,046	71,983	15,329	30,768	58,130
3	1939 <sup>8</sup> .....	956	(NA)	15,479	20,125	13,827	23,240	16,241
	South Atlantic:							
	Mineral industries only:							
4	1958.....	4,701	899	106,066	478,296	92,417	161,799	399,482
5	1954.....	4,227	808	108,999	421,261	98,602	176,135	366,985
	Including operations in manufactures:							
6	1958.....	4,875	930	108,816	487,949	95,002	166,763	408,309
7	1954.....	4,380	843	111,848	429,574	101,328	181,592	374,640
8	1939 <sup>8</sup> .....	2,141	(NA)	141,898	173,211	134,746	211,365	157,882
	Delaware, Maryland, and District of Columbia:							
9	1958.....	208	31	2,542	10,632	2,195	4,191	8,386
10	1954 <sup>7</sup> .....	216	32	2,171	7,599	1,944	4,374	6,604
11	1939 <sup>8</sup> .....	180	(NA)	3,850	3,937	3,599	6,090	3,417
	Virginia:							
12	1958.....	1,066	204	18,600	70,371	16,240	27,460	59,154
13	1954 <sup>7</sup> .....	788	164	16,864	55,064	15,123	26,508	47,156
14	1939 <sup>8</sup> .....	257	(NA)	20,061	20,942	19,010	28,998	18,888
	West Virginia:							
15	1958.....	2,826	474	68,715	334,601	60,272	101,060	283,397
16	1954 <sup>7</sup> .....	2,339	467	75,073	308,745	68,698	115,644	274,014
17	1939 <sup>8</sup> .....	1,351	(NA)	107,260	139,827	102,302	156,344	128,978
	North Carolina:							
18	1958.....	267	57	4,265	13,929	3,844	7,764	11,711
19	1954 <sup>7</sup> .....	546	46	4,047	11,642	3,784	8,337	10,303
20	1939 <sup>8</sup> .....	111	(NA)	1,965	1,443	1,787	3,720	1,123
	South Carolina:							
21	1958.....	86	22	1,591	5,546	1,350	2,768	4,303
22	1954 <sup>7</sup> .....	72	19	1,518	4,356	1,372	3,102	3,591
23	1939 <sup>8</sup> .....	46	(NA)	1,388	1,064	1,291	2,756	782
	Georgia:							
24	1958.....	202	70	6,182	22,737	5,393	11,378	18,273
25	1954 <sup>7</sup> .....	220	58	5,286	15,742	4,782	10,490	13,016
26	1939 <sup>8</sup> .....	110	(NA)	3,906	2,808	3,674	7,440	2,279
	Florida:							
27	1958.....	220	72	6,921	30,133	5,708	12,142	23,085
28	1954 <sup>7</sup> .....	199	57	6,889	26,426	5,625	13,137	19,956
29	1939 <sup>8</sup> .....	86	(NA)	3,468	3,190	3,083	6,017	2,415
	East South Central:							
	Mineral industries only:							
30	1958.....	3,215	575	62,083	263,721	54,294	93,251	220,315
31	1954.....	3,073	581	66,628	240,006	60,615	104,304	206,919
	Including operations in manufactures:							
32	1958.....	3,311	595	63,755	269,247	55,890	96,375	225,400
33	1954 <sup>7</sup> .....	3,159	599	68,079	244,415	61,988	107,058	210,951
34	1939 <sup>8</sup> .....	1,423	(NA)	93,949	96,023	89,522	134,469	86,990
	Kentucky:							
35	1958.....	2,123	334	36,134	149,586	32,135	53,187	129,153
36	1954 <sup>7</sup> .....	1,828	337	38,917	139,370	35,842	59,702	124,206
37	1939 <sup>8</sup> .....	743	(NA)	53,839	56,971	51,452	73,891	52,338
	Tennessee:							
38	1958.....	562	106	9,692	35,585	8,411	15,571	29,411
39	1954 <sup>7</sup> .....	692	112	10,181	32,037	9,416	17,412	28,044
40	1939 <sup>8</sup> .....	266	(NA)	12,462	11,945	11,723	19,578	10,459
	Alabama:							
41	1958.....	357	91	12,583	57,389	11,174	18,745	47,742
42	1954 <sup>7</sup> .....	413	98	15,136	57,317	13,602	23,526	46,947
43	1939 <sup>8</sup> .....	341	(NA)	26,953	26,449	25,758	39,827	23,764

See footnotes at end of table.

## GENERAL SUMMARY

1-31

States, Alaska, and Hawaii. 1958, 1954, and 1939—Continued

Value added in mining (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts <sup>1</sup> (\$1,000)	Capital expenditures <sup>2</sup> (\$1,000)	Energy used <sup>2</sup> (kwh equivalent)		
	Supplies, purchases for re-sale, and purchased fuels and electricity <sup>4</sup>	Minerals received for preparation	Contract work <sup>3</sup>	Purchased machinery installed <sup>2</sup>			Total (million)	Per production worker (\$1,000)	
384,888	78,525	56,074	56,081	31,911	540,135	67,344	10,833	841	1
362,804	69,605	<sup>6</sup> 2,914	64,636	44,721	461,400	83,280	11,839	772	2
68,518	8,145	(NA)	12,418	(NA)	89,081	(NA)	3,829	277	3
939,989	<sup>12</sup> 281,858	<sup>12</sup> 194,560	43,227	93,637	1,411,426	141,845	14,697	159	4
<sup>5</sup> 761,393	238,995	<sup>5</sup> <sup>6</sup> 102,110	39,317	75,363	<sup>5</sup> 1,118,407	98,768	12,887	131	5
969,764	<sup>12</sup> 287,827	<sup>12</sup> 194,842	43,251	<sup>10</sup> 93,996	1,447,446	<sup>10</sup> 142,234	14,740	155	6
<sup>5</sup> 782,793	243,903	<sup>5</sup> <sup>6</sup> 102,145	39,332	75,549	<sup>5</sup> 1,144,729	98,990	12,928	128	7
243,276	49,004	(NA)	2,741	(NA)	295,021	(NA)	8,876	66	8
27,510	9,827	2,504	1,953	3,328	41,261	3,861	347	158	9
20,572	5,554	...	736	2,195	27,145	1,912	410	211	10
7,243	1,405	(NA)	59	(NA)	8,707	(NA)	388	108	11
142,571	42,170	29,209	12,076	17,777	207,408	36,395	1,638	101	12
96,014	37,963	10,003	4,502	7,449	145,592	10,339	1,399	93	13
28,642	5,939	(NA)	44	(NA)	34,625	(NA)	701	37	14
607,943	<sup>3</sup> 163,456	122,885	22,946	51,493	892,384	76,339	6,922	115	15
515,807	150,663	<sup>6</sup> 58,982	26,772	46,161	739,381	59,004	5,885	86	16
187,547	34,319	(NA)	2,400	(NA)	224,266	(NA)	5,662	55	17
31,757	12,554	543	611	3,067	44,557	3,975	737	192	18
<sup>5</sup> 33,143	8,962	<sup>5</sup> 218	890	3,066	<sup>5</sup> 42,811	3,466	513	136	19
3,448	1,082	(NA)	7	(NA)	4,537	(NA)	176	98	20
14,499	<sup>9</sup> 6,052	( <sup>9</sup> )	160	1,480	20,341	1,850	282	209	21
11,229	3,431	4	168	1,298	14,184	1,946	288	210	22
2,389	1,010	(NA)	58	(NA)	3,457	(NA)	133	103	23
58,048	<sup>11</sup> 23,322	<sup>11</sup> 879	1,151	7,278	82,545	8,133	1,905	353	24
37,326	12,160	647	1,311	4,309	49,066	6,687	1,339	280	25
5,864	2,204	(NA)	130	(NA)	8,198	(NA)	770	210	26
87,436	<sup>11</sup> 30,556	<sup>11</sup> 38,712	4,354	<sup>10</sup> 9,573	158,950	<sup>10</sup> 11,681	2,909	510	27
<sup>5</sup> 68,702	25,170	<sup>5</sup> 32,291	4,953	11,071	<sup>5</sup> 126,550	15,636	3,094	550	28
8,143	3,045	(NA)	43	(NA)	11,231	(NA)	1,046	339	29
651,249	181,075	130,558	64,692	55,421	983,325	99,670	12,104	223	30
<sup>5</sup> 519,642	130,228	<sup>5</sup> <sup>6</sup> 39,311	41,495	44,401	<sup>5</sup> 706,066	69,011	9,853	163	31
671,834	184,937	130,748	64,695	55,564	1,007,944	99,834	12,128	217	32
<sup>5</sup> 531,679	133,168	<sup>5</sup> <sup>6</sup> 39,502	41,500	44,491	<sup>5</sup> 721,230	69,112	9,867	159	33
130,531	25,930	(NA)	2,020	(NA)	158,481	(NA)	5,742	64	34
321,348	88,650	75,908	24,617	28,063	493,635	44,951	4,143	129	35
270,714	67,651	<sup>6</sup> 24,775	14,905	18,756	366,082	30,719	3,514	98	36
77,169	13,553	(NA)	1,084	(NA)	91,806	(NA)	2,322	45	37
76,001	<sup>9</sup> 39,212	( <sup>9</sup> )	3,234	5,985	115,754	8,678	1,955	232	38
65,241	19,594	1,236	3,741	5,543	88,267	7,088	1,122	119	39
18,435	4,160	(NA)	89	4,160	22,684	(NA)	1,421	121	40
138,254	<sup>9</sup> 66,007	( <sup>9</sup> )	8,452	10,381	209,396	13,698	1,499	134	41
<sup>5</sup> 100,869	27,562	<sup>5</sup> 13,023	3,768	8,920	<sup>5</sup> 145,888	8,256	1,261	93	42
33,849	7,702	(NA)	301	(NA)	41,852	(NA)	1,815	70	43



Table 5.—General Statistics for Mineral Operations, by Divisions,

Division, State, and year		Establishments, number		All employees		Production and development workers		
		Total <sup>3</sup>	With 20 or more employees	Number	Payroll  (\$1,000)	Number	Man-hours  (\$1,000)	Wages  (\$1,000)
DIVISIONS AND STATES—Continued								
East South Central—Continued								
Mississippi:								
1	1958.....	269	64	5,346	26,687	4,170	8,872	19,094
2	1954 <sup>7</sup> .....	226	52	3,845	15,691	3,128	6,418	11,754
3	1939 <sup>8</sup> .....	73	(NA)	695	658	589	1,173	429
West South Central:								
Mineral industries only:								
4	1958.....	10,062	1,896	225,804	1,231,180	151,708	320,248	719,783
5	1954.....	9,179	1,906	223,679	1,044,616	165,208	358,039	688,469
Including operations in manufactures:								
6	1958.....	10,216	1,918	227,261	1,236,506	153,129	323,006	724,927
7	1954 <sup>7</sup> .....	9,306	1,938	225,433	1,049,222	166,957	361,436	693,048
8	1939 <sup>8</sup> .....	6,252	(NA)	122,938	203,232	98,687	176,345	137,938
Arkansas:								
9	1958.....	463	66	5,635	24,587	4,399	8,525	17,503
10	1954 <sup>7</sup> .....	423	72	6,131	22,977	5,206	10,425	17,995
11	1939 <sup>8</sup> .....	307	(NA)	7,477	8,734	6,926	10,737	7,446
Louisiana:								
12	1958.....	1,132	344	46,161	265,027	33,293	75,470	174,668
13	1954 <sup>7</sup> .....	911	286	37,209	179,489	29,575	65,982	132,855
14	1939 <sup>8</sup> .....	573	(NA)	14,475	24,375	12,244	22,496	18,351
Oklahoma:								
15	1958.....	2,668	347	38,458	196,064	24,876	48,044	105,403
16	1954 <sup>7</sup> .....	2,627	399	41,100	177,623	30,534	61,532	115,830
17	1939 <sup>8</sup> .....	1,687	(NA)	33,312	52,548	26,188	46,857	33,892
Texas:								
18	1958.....	5,955	1,161	137,007	750,828	90,561	190,957	427,353
19	1954 <sup>7</sup> .....	5,345	1,181	140,993	669,133	101,642	223,497	426,368
20	1939 <sup>8</sup> .....	3,685	(NA)	67,674	117,575	53,329	96,255	78,249
Mountain:								
Mineral industries only:								
21	1958.....	3,803	566	84,958	463,478	64,732	128,802	329,888
22	1954.....	4,551	556	84,662	393,746	68,713	140,458	301,851
Including operations in manufactures:								
23	1958.....	3,916	574	85,806	467,344	65,575	130,461	333,739
24	1954 <sup>7</sup> .....	4,612	561	85,066	395,178	69,114	141,253	303,275
25	1939 <sup>8</sup> .....	2,351	(NA)	74,096	111,751	66,711	129,846	93,717
Montana:								
26	1958.....	453	39	8,490	44,295	5,866	11,073	28,038
27	1954 <sup>7</sup> .....	583	56	11,605	51,764	8,936	17,478	36,979
28	1939 <sup>8</sup> .....	499	(NA)	11,599	17,722	10,291	19,862	14,701
Idaho:								
29	1958.....	183	22	3,979	21,085	3,352	6,436	16,565
30	1954 <sup>7</sup> .....	257	28	4,781	22,405	4,135	8,651	18,711
31	1939 <sup>8</sup> .....	116	(NA)	5,049	8,146	4,654	9,753	7,086
Wyoming:								
32	1958.....	504	87	8,644	49,097	6,036	12,056	31,092
33	1954 <sup>7</sup> .....	487	101	9,745	45,847	7,491	14,641	32,508
34	1939 <sup>8</sup> .....	188	(NA)	6,848	10,442	6,204	10,189	8,765
Colorado:								
35	1958.....	992	132	14,273	76,923	10,014	19,340	48,166
36	1954 <sup>7</sup> .....	1,043	118	13,690	59,999	10,977	21,317	44,381
37	1939 <sup>8</sup> .....	589	(NA)	14,800	19,823	13,469	23,356	16,845
New Mexico:								
38	1958.....	770	142	17,552	97,493	13,609	28,197	70,355
39	1954 <sup>7</sup> .....	693	119	13,934	65,784	11,545	23,599	51,274
40	1939 <sup>8</sup> .....	286	(NA)	8,921	12,720	8,065	14,817	10,605
Arizona:								
41	1958.....	338	43	15,609	81,473	12,462	25,189	69,257
42	1954 <sup>7</sup> .....	533	37	13,290	66,776	11,073	25,286	54,081
43	1939 <sup>8</sup> .....	179	(NA)	10,389	17,066	9,400	22,059	14,561

See footnotes at end of table.

## GENERAL SUMMARY

1-33

States, Alaska, and Hawaii: 1958, 1954, and 1939-Continued

Value added in mining (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts <sup>1</sup> (\$1,000)	Capital expenditures <sup>2</sup> (\$1,000)	Energy used <sup>2</sup> (kwh equivalent)		
	Supplies, purchases for re-sale, and purchased fuels and electricity <sup>4</sup>	Minerals received for preparation	Contract work	Purchased machinery installed <sup>2</sup>			Total (million)	Per production worker (1,000)	
136,231 94,855 1,078	30,502 6 <sup>9</sup> 18,829 515	15,406 ( <sup>9</sup> ) (NA)	28,392 19,086 546	11,135 11,272 (NA)	189,159 120,993 2,139	32,507 23,049 (NA)	4,531 3,970 184	1,087 1,269 312	1 2 3
6,158,639 5,209,789	1,127,398 5918,790	634,542 5 <sup>6</sup> 149,323	1,067,056 1,029,501	464,945 615,825	7,917,123 5 <sup>6</sup> 397,677	1,535,457 1,525,548	237,107 217,257	1,563 1,315	4 5
6,186,121 5,224,583 809,276	1,132,277 922,642 83,045	634,662 5 <sup>6</sup> 149,323 (NA)	1,067,092 1,029,511 122,948	464,959 615,875 (NA)	7,949,606 5 <sup>6</sup> 416,352 1,015,269	1,535,505 1,525,579 (NA)	237,112 217,268 106,337	1,548 1,301 1,078	6 7 8
114,459 5110,107 22,150	13 <sup>20</sup> 530 5 <sup>6</sup> 20,386 4,040	13 <sup>3</sup> 456 5 <sup>6</sup> 2,085 (NA)	11,094 12,855 5,158	7,816 7,139 (NA)	141,084 5138,879 31,348	16,271 13,690 (NA)	3,752 3,793 3,306	853 729 477	9 10 11
1,528,053 984,976 92,879	338,885 6 <sup>9</sup> 231,042 14,288	112,644 ( <sup>9</sup> ) (NA)	349,184 260,574 26,661	144,851 6150,157 (NA)	1,903,526 1,195,573 133,828	570,091 431,176 (NA)	47,946 43,447 16,448	1,440 1,469 1,343	12 13 14
676,924 586,626 173,015	13 <sup>135</sup> 613 123,700 21,909	13 <sup>50</sup> 538 5 <sup>6</sup> 17,576 (NA)	126,847 155,980 13,789	60,422 94,720 (NA)	864,106 758,124 208,713	186,238 220,478 (NA)	31,638 31,302 23,132	1,272 1,025 883	15 16 17
3,866,685 3,542,874 521,232	12 <sup>639</sup> 483 5 <sup>6</sup> 2677,176 42,808	12 <sup>465</sup> 790 ( <sup>9</sup> ) (NA)	579,967 600,102 77,340	251,870 363,859 (NA)	5,040,890 4,323,776 641,380	762,905 860,235 (NA)	153,779 138,726 63,451	1,698 1,365 1,190	18 19 20
1,745,655 51,305,418	14 <sup>436</sup> 182 312,916	14 <sup>288</sup> 677 5 <sup>6</sup> 140,363	315,021 256,342	142,625 128,584	2,447,655 51,768,451	480,505 364,677	46,449 38,360	718 558	21 22
1,770,199 51,313,850 283,834	14 <sup>439</sup> 627 314,283 64,167	14 <sup>288</sup> 677 5 <sup>6</sup> 140,363 (NA)	315,027 256,353 13,242	142,670 128,606 (NA)	2,475,644 51,778,236 361,243	480,556 364,679 (NA)	46,451 38,361 18,846	708 555 282	23 24 25
116,993 583,942 34,865	29,822 26,150 9,253	33,014 5 <sup>6</sup> 35,711 (NA)	17,631 24,074 583	7,466 10,554 (NA)	181,501 5148,747 44,701	23,425 31,680 (NA)	2,879 2,504 1,237	491 280 120	26 27 28
38,427 538,692 18,952	11,538 11,498 4,335	2,147 5 <sup>2</sup> 672 (NA)	3,446 1,787 102	1,195 3,256 (NA)	53,842 552,083 23,389	2,911 5,822 (NA)	580 527 233	173 127 50	29 30 31
344,770 5258,503 32,679	44,069 43,751 3,016	16,718 5 <sup>6</sup> 1,399 (NA)	49,741 56,146 3,176	18,729 25,319 (NA)	407,929 5313,659 38,871	66,098 71,475 (NA)	7,175 9,546 1,856	1,189 1,274 299	32 33 34
255,896 5207,541 41,875	67,986 50,243 9,815	37,038 5 <sup>6</sup> 3,355 (NA)	36,338 40,761 601	31,390 24,787 (NA)	369,520 5262,214 52,291	59,128 56,479 (NA)	6,232 4,873 2,113	622 444 157	35 36 37
534,146 5338,096 44,683	120,090 67,887 6,955	89,911 5 <sup>6</sup> 5,773 (NA)	139,258 72,572 7,522	47,837 41,036 (NA)	707,071 5403,274 59,160	224,171 121,656 (NA)	19,431 12,384 9,234	1,428 1,073 1,145	38 39 40
195,533 179,001 40,560	59,168 48,748 13,540	7,973 51,078 (NA)	18,412 30,428 130	15 <sup>6</sup> 012 9,154 (NA)	257,177 5219,031 54,230	15 <sup>29</sup> 921 47,867 (NA)	154,579 3,747 2,372	367 338 252	41 42 43



Table 5.—General Statistics for Mineral Operations, by Divisions,

Division, State, and year		Establishments, number		All employees		Production and development workers		
		Total <sup>3</sup>	With 20 or more employees	Number	Payroll	Number	Man-hours	Wages
					(\$1,000)			
DIVISION AND STATES—Continued								
Mountain—Continued								
Utah:								
1	1958.....	468	79	14,100	80,290	11,684	23,013	63,238
2	1954 <sup>7</sup> .....	562	59	12,685	56,807	10,298	19,903	43,447
3	1939 <sup>8</sup> .....	199	(NA)	10,832	16,614	9,529	18,466	13,274
Nevada:								
4	1958.....	208	30	3,159	16,688	2,552	5,157	13,028
5	1954 <sup>7</sup> .....	454	43	5,336	25,796	4,659	10,378	21,894
6	1939 <sup>8</sup> .....	295	(NA)	5,658	9,218	5,099	11,344	7,880
Pacific:								
Mineral industries only:								
7	1958.....	2,059	307	37,047	228,925	26,062	52,871	142,881
8	1954.....	2,755	360	43,898	223,675	33,218	66,398	155,722
Including operations in manufactures:								
9	1958.....	2,227	325	38,424	235,893	27,429	55,579	149,784
10	1954 <sup>7</sup> .....	2,861	372	44,819	227,431	34,137	68,232	159,471
11	1939 <sup>8</sup> .....	2,354	(NA)	46,399	85,105	38,764	77,826	64,350
Washington:								
12	1958.....	239	30	2,236	11,977	1,795	3,187	8,944
13	1954 <sup>7</sup> .....	311	35	3,228	14,781	2,647	4,912	11,403
14	1939 <sup>8</sup> .....	177	(NA)	4,248	6,203	3,894	6,608	5,376
Oregon:								
15	1958.....	230	15	1,367	6,921	1,138	2,270	5,622
16	1954 <sup>7</sup> .....	296	13	1,487	6,546	1,331	2,690	5,718
17	1939 <sup>8</sup> .....	128	(NA)	1,476	1,955	1,309	2,672	1,627
California:								
18	1958.....	1,758	280	34,821	216,995	24,496	50,122	135,218
19	1954 <sup>7</sup> .....	2,254	324	40,104	206,104	30,159	60,630	142,350
20	1939 <sup>8</sup> .....	2,049	(NA)	40,675	76,947	33,561	68,546	57,347
Alaska:								
21	1958.....	160	9	988	7,642	816	2,047	5,725
22	1954 <sup>7</sup> .....	194	14	1,436	9,529	1,197	2,990	7,663
Hawaii:								
23	1958.....	24	8	445	1,820	391	793	1,522
24	1954 <sup>7</sup> .....	13	2	171	598	156	320	517

NA Not available.

<sup>1</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1958 and 1954, represents gross value of shipments and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For 1939, represents net production and excludes this duplication. For 1954 and 1939, excludes the value of residue gas from natural gas liquids plants.

<sup>2</sup>Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

<sup>3</sup>For 1939, represents the number of mines and quarries, number of natural gas liquids plants, number of crude petroleum and natural gas establishments, and for mining services industries, number of operating companies.

<sup>4</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.

<sup>5</sup>Excludes data for the Uranium-Radium-Vanadium Ores Industry.

<sup>6</sup>Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of liquids contained in such gas.

<sup>7</sup>Excludes data for sand and gravel mining operations in manufacturing establishments.

<sup>8</sup>Except for value of shipments and value added excludes data for dimension stone dressing plants operated in conjunction with quarries. For the United States, the value added in dressing stone at such operations was \$7,913 thousand; this value has been included in the value of shipments and value added in mining.

States, Alaska, and Hawaii: 1958, 1954, and 1939-Continued

Value added in mining (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts <sup>1</sup> (\$1,000)	Capital expenditures <sup>2</sup> (\$1,000)	Energy used <sup>2</sup> (kwh equivalent)		
	Supplies, purchases for resale, and purchased fuels and electricity <sup>4</sup>	Minerals received for preparation	Contract work <sup>4</sup>	Purchased machinery installed <sup>2</sup>			Total (million)	For production worker (1,000)	
250,132	75,790	101,876	47,246	<sup>15</sup> 22,368	432,288	<sup>15</sup> 65,124	<sup>15</sup> 4,722	404	1
<sup>5</sup> 153,235	39,679	<sup>5</sup> 75,609	16,565	10,090	<sup>5</sup> 275,157	19,438	3,851	374	2
51,550	11,225	(NA)	262	(NA)	63,037	(NA)	1,346	141	3
34,302	<sup>9</sup> 31,172	( <sup>9</sup> )	2,949	7,644	66,318	9,749	853	334	4
<sup>5</sup> 54,795	26,327	<sup>5</sup> 14,766	14,020	4,410	<sup>5</sup> 104,071	10,262	929	199	5
18,670	6,028	(NA)	866	(NA)	25,564	(NA)	455	89	6
1,265,284	<sup>16</sup> 175,448	<sup>16</sup> 108,176	109,322	47,757	1,534,282	171,705	37,106	1,424	7
<sup>5</sup> 1,350,173	175,791	<sup>5</sup> 629,250	144,695	72,765	<sup>5</sup> 1,544,353	228,371	39,178	1,179	8
1,299,098	<sup>16</sup> 182,601	<sup>16</sup> 108,177	109,376	47,807	1,575,303	171,756	37,113	1,353	9
<sup>5</sup> 1,367,855	179,826	<sup>5</sup> 629,251	144,706	72,790	<sup>5</sup> 1,566,056	228,422	39,180	1,148	10
333,283	46,357	(NA)	20,782	(NA)	400,422	(NA)	29,396	758	11
28,386	<sup>9</sup> 10,095	( <sup>9</sup> )	1,974	1,583	39,220	2,818	481	268	12
<sup>5</sup> 25,182	.8,307	<sup>5</sup> 214	1,740	2,387	<sup>5</sup> 34,998	2,857	404	153	13
11,075	2,554	(NA)	65	(NA)	13,694	(NA)	251	64	14
18,633	6,173	166	3,083	1,632	23,085	6,602	345	303	15
13,168	4,681	66	1,899	2,761	18,872	3,703	349	262	16
3,807	1,298	(NA)	15	(NA)	5,120	(NA)	143	109	17
1,252,079	166,833	107,511	104,319	44,592	1,512,998	162,336	36,287	1,481	18
<sup>5</sup> 1,329,505	166,838	<sup>5</sup> 628,971	141,067	67,642	<sup>5</sup> 1,512,186	221,862	38,427	1,274	19
318,401	42,505	(NA)	20,702	(NA)	381,608	(NA)	29,002	864	20
9,214	4,453	500	7,120	1,674	17,346	5,615	652	799	21
14,383	4,890	121	1,651	3,305	19,753	4,597	677	566	22
4,887	1,228	...	128	668	6,207	704	64	164	23
1,266	349	...	130	226	1,778	193	19	122	24

<sup>9</sup>The cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.<sup>10</sup>For Middle Atlantic, excludes data for dimension stone operations in manufactures in New Jersey; for the East North Central, excludes data for dimension stone operations in manufactures in Michigan. For the West North Central, excludes data for dimension stone mining operations in manufactures in Iowa and Nebraska. For the South Atlantic, excludes data for dimension stone operations in manufactures in Florida.<sup>11</sup>For dimension stone operations in manufactures in New Hampshire, Rhode Island, Missouri, Georgia, and Florida, the cost of minerals received for preparation and contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.<sup>12</sup>The cost of minerals received for preparation in South Carolina and Texas are included with the cost of supplies, purchases for resale, and purchased fuels and electricity.<sup>13</sup>The cost of minerals received for preparation in the Metal Mining Industries is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.<sup>14</sup>The cost of minerals received for preparation in Nevada are included with the cost of supplies, purchases for resale, and purchased fuels and electricity.<sup>15</sup>Excludes data for dimension stone operations in manufactures.<sup>16</sup>The cost of minerals received for preparation in the Metal Mining and Nonmetallic Mineral Mining Industries in Washington is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 6.—Value of Primary and Secondary Shipments and Receipts and Value of Net Shipments in All Industries, by Industry for the United States: 1958

Ind. code	Industry or subindustry	Value of shipments and receipts of establishments classified in the industry (\$1,000)					Value of net shipments of primary products or services of the industry shipped or performed by establishments in all industries (\$1,000)		
		Total	Primary products	Secondary products	Receipts for secondary services	Products purchased and resold without further processing	Total (produced or performed in all industries)	Produced or performed in this industry	Produced or performed in other industries
10	Metal mining:								
1011	Iron ores.....	681,938	(D)	(D)	657	(D)	624,841	(D)	(D)
1021	Copper ores.....	457,644	440,410	17,054	130	50	369,419	357,244	12,175
1031	Lead and zinc ores.....	120,561	116,420	4,031	110	...	102,676	99,702	2,974
	Lead ores.....	75,603	61,553	13,940	110	...	59,941	54,094	5,847
	Zinc ores.....	44,958	37,790	7,168	...	...	42,735	28,531	14,204
104	Gold and silver ores:								
1042	Lode gold.....	29,506	29,436	70	...	...	29,072	28,164	908
1043	Placer gold.....	6,326	6,314	12	...	...	6,314	6,314	...
1044	Silver ores.....	12,557	12,313	244	...	...	13,093	12,177	916
1051	Bauxite.....	18,174	18,155	...	19	...	17,355	17,355	...
106	Ferroalloy ores:								
1062	Manganese ores.....	39,385	(D)	(D)	(D)	...	32,776	(D)	(D)
1064	Tungsten ores.....	14,430	(D)	(D)	(D)	...	13,675	(D)	(D)
1069	Ferroalloy ores, nec.....	57,706	(D)	(D)	...	...	67,868	(D)	(D)
108	Metal mining services:								
1081	Metal mining stripping services.....	10,270	(D)	...	(D)	...	10,886	(D)	(D)
1082	Metal mining services, nec.....	22,114	(D)	...	(D)	...	21,377	(D)	(D)
109	Miscellaneous metal ores:								
1092	Mercury ores.....	8,607	(D)	...	(D)	(D)	18,402	18,402	...
1093	Titanium ores.....	17,158	(D)	(D)	(D)	(D)	212,365	(D)	(D)
1094	Uranium-radium-vanadium ores.....	336,451	(D)	(D)	1,475	...	224,931	(D)	(D)
1099	Metallic ores, nec.....	3,018	2,940	78	...	...	3,551	(D)	(D)
11	Anthracite mining:								
1111	Anthracite.....	290,342	282,593	(D)	(D)	4,960	196,425	196,425	...
1112	Anthracite stripping services.....	34,463	(D)	...	(D)	...	33,305	(D)	(D)
1113	Anthracite mining services, nec.....	323	(D)	...	(D)	...	3926	(D)	(D)
12	Bituminous coal and lignite mining:								
1211	Bituminous coal.....	2,390,677	2,363,691	3,119	1,068	22,799	2,055,042	2,054,607	435
1212	Lignite.....	11,035	11,021	...	14	...	11,021	11,021	...
1213	Coal stripping services, nec.....	19,162	19,112	...	18	32	19,123	19,112	11
1214	Coal mining services, nec.....	2,487	2,262	...	207	18	2,414	2,262	152
13	Oil and gas extraction:								
1311	Crude petroleum and natural gas.....	8,385,906	8,325,029	121	59,436	1,320	8,376,465	8,325,029	51,436
	Crude petroleum.....	7,809,898	6,899,121	854,006	55,480	1,291	7,082,194	6,899,121	183,073
	Natural gas.....	576,008	432,565	139,458	3,956	29	1,294,271	432,565	861,706
1321	Natural gas liquids.....	1,625,098	1,617,511	1,708	5,879	...	699,328	699,328	...
138	Oil and gas field services:								
1381	Drilling oil and gas wells.....	904,939	842,509	49,515	10,697	2,218	895,267	842,509	52,758
1382	Oil and gas exploration services.....	87,215	83,991	24	2,093	1,107	84,647	83,991	656
1389	Oil and gas field services, nec.....	633,729	560,656	1,897	13,149	58,027	578,104	560,656	17,448
	Survey, log, cement services.....	220,829	150,361	24	24,130	46,314	181,215	150,361	30,854
	Miscellaneous oil and gas field services.....	412,900	357,713	1,873	41,601	11,713	396,889	357,713	39,176
14	Nonmetallic minerals mining:								
1411	Dimension stone.....	15,864	15,275	438	6	145	22,154	15,275	6,879
	Dimension limestone.....	4,174	4,128	41	5	...	7,139	4,128	3,011
	Dimension granite.....	5,577	5,166	350	1	60	5,864	5,166	698
	Dimension stone, nec.....	6,113	5,979	49	...	85	9,151	5,979	3,172
1421	Crushed and broken stone.....	616,076	583,039	18,466	2,988	11,583	4731,642	580,851	4150,791
	Crushed and broken limestone.....	459,037	432,066	14,427	2,426	10,118	4577,004	430,007	4146,997
	Crushed and broken granite.....	49,596	48,467	767	157	205	449,961	48,467	41,494
	Crushed and broken stone, nec.....	107,443	99,376	6,402	405	1,260	4104,677	99,247	45,430
1441	Sand and gravel.....	560,806	519,327	29,154	4,595	7,730	4591,188	518,457	472,731
	Common sand and gravel.....	516,090	474,510	29,944	4,595	7,041	4550,289	473,717	476,572
	Glass sand.....	28,343	19,442	8,568	...	333	521,955	519,442	2,513
	Molding sand.....	16,373	14,319	1,698	...	356	519,021	514,319	4,702
145	Clay and related minerals:								
1452	Bentonite.....	16,843	16,603	(D)	(D)	...	23,207	616,505	76,702
1453	Fire clay.....	18,606	17,735	632	230	9	433,497	17,559	415,938
1454	Fuller's earth.....	8,692	(D)	(D)	...	(D)	6,778	6,778	...
1455	Kaolin and ball clay.....	42,434	(D)	463	...	(D)	47,664	(D)	(D)
1456	Feldspar.....	6,889	6,228	661	...	...	7,018	5,772	1,246
1457	Magnesite and brucite.....	7,270	7,270	...	...	...	7,270	7,270	...
1459	Clay and related minerals, nec.....	22,004	21,741	(D)	...	(D)	468,202	21,741	446,461

See footnotes at end of table.

Table 6.—Value of Primary and Secondary Shipments and Receipts and Value of Net Shipments in All Industries, by Industry for the United States: 1958—Continued

Ind. code	Industry or subindustry	Value of shipments and receipts of establishments classified in the industry (\$1,000)					Value of net shipments of primary products or services of the in- dustry shipped or performed by establishments in all industries (\$1,000)		
		Total	Primary products	Secondary products	Receipts for secondary services	Products purchased and resold without further processing	Total (produced or performed in all in- dustries)	Produced or performed in this industry	Produced or performed in other industries
14	Nonmetallic minerals mining—Continued								
147	Chemical and fertilizer minerals:								
1472	Barite.....	13,768	(D)	(D)	(D)	...	31,868	13,434	18,434
1473	Fluorspar.....	19,977	18,781	(D)	(D)	...	15,443	15,443	...
1474	Potash, soda, borate minerals.....	141,115	138,807	2,308	...	...	138,413	(D)	(D)
1475	Phosphate rock.....	132,094	131,969	(D)	(D)	52	99,036	99,036	...
1476	Rock salt.....	41,813	37,623	4,190	...	...	40,525	(D)	(D)
1477	Sulfur.....	106,202	106,200	2	...	...	106,200	106,200	...
1479	Chemical-fertilizer mining, nec.....	9,643	(D)	(D)	(D)	...	21,690	9,452	12,238
148	Nonmetallic minerals services:								
1481	Nonmetallic minerals stripping.....	4,787	4,278	...	509	...	4,317	4,278	39
1482	Nonmetallic minerals services, nec.....	3,147	3,004	...	143	...	3,054	3,004	50
149	Miscellaneous minerals, nec:								
1492	Gypsum.....	7,048	7,036	4	8	...	434,160	7,036	427,124
1493	Mica.....	6,221	6,103	113	...	5	10,490	6,103	54,387
1494	Native asphalt and bitumens.....	8,041	8,027	...	14	...	8,027	8,027	...
1495	Pumice and pumicite.....	5,002	(D)	(D)	...	...	5,006	(D)	(D)
1496	Talc, soapstone, pyrophyllite.....	14,908	14,607	271	30	...	19,167	(D)	(D)
1497	Natural abrasives, except sand.....	3,373	(D)	(D)	...	...	3,510	(D)	(D)
1498	Peat.....	4,379	(D)	(D)	50	9	4,253	(D)	(D)
1499	Nonmetallic minerals, nec.....	31,611	31,493	111	2	5	31,349	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>Represents gross shipments of mercury metal only.<sup>2</sup>Represents gross shipments of titanium concentrates.<sup>3</sup>Represents services performed in the two anthracite services industries only.<sup>4</sup>Includes the estimated value of minerals produced and used in the same manufacturing establishment in making manufactured products.<sup>5</sup>Represents gross shipments.<sup>6</sup>Includes crude bentonite produced in other mineral industries, amounting to less than one percent of the figure shown.<sup>7</sup>Excludes crude bentonite.



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 7.—Quantity and Value of Mineral Products as Reported to the Bureau of the Census and to the Bureau of Mines for the United States, Alaska, and Hawaii: 1958

Product	Unit of measure	Bureau of the Census statistics			Bureau of Mines statistics		
		Production (quantity)	Shipments, including interplant transfers		Production (quantity)	Shipments	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
METAL ORES AND CONCENTRATES							
Iron ore, except manganiferous iron ore:							
Crude iron ore.....	1,000 long tons.....	108,384	<sup>1</sup> 50,586	<sup>1</sup> 311,292	109,815	(NA)	(NA)
Net production and net shipments.....	...do.....	66,993	<sup>2</sup> 66,003 <sup>3</sup> 68,121	<sup>2</sup> 606,729 <sup>3</sup> 621,799	66,970	66,288	569,154
Manganiferous iron ore:							
Crude manganiferous iron ore.....	...do.....	882	( <sup>1</sup> )	( <sup>1</sup> )	(NA)	(NA)	(NA)
Net production and shipments.....	...do.....	437	<sup>3</sup> 409	<sup>3</sup> 3,042	(NA)	<sup>4</sup> 431	<sup>4</sup> 2,929
Copper, lead, zinc, gold, and silver ores (production and net shipments).....	1,000 short tons.....	<sup>5</sup> 129,216	4,384	29,417	134,516	(NA)	(NA)
Metal content of copper, lead, zinc, gold, and silver-bearing materials: <sup>6</sup>							
Copper.....	1,000 pounds.....	1,993,911	(NA)	(NA)	1,958,658	(NA)	<sup>7</sup> 515,127
Lead.....	...do.....	571,832	(NA)	(NA)	534,754	(NA)	<sup>7</sup> 62,566
Zinc.....	...do.....	927,407	(NA)	(NA)	824,010	(NA)	<sup>7</sup> 84,113
Gold.....	1,000 fine ounces.....	1,739	(NA)	(NA)	1,739	(NA)	<sup>7</sup> 60,874
Silver.....	...do.....	35,577	(NA)	(NA)	34,088	(NA)	<sup>7</sup> 30,851
Copper ores:							
Crude ore mined in the Copper Ores Industry (production and net shipments)	Production: 1,000 short tons of ores or concentrates	111,957 3,307 (NA)	copper 1,792,489 174,868	{ 21,622 316,147 31,650	<sup>8</sup> 114,824 (NA) (NA)	copper <sup>9</sup> 1,819,465 198,000	{ (NA) (NA) (NA)
Copper concentrates.....							
Copper precipitates (Metal content)....							
Lead and zinc ores:							
Crude ore mined in the Lead and Zinc Ores Industry (production and net shipments).....	Shipments: 1,000 pounds of metal contained....	14,405 383 758	lead 562,970 zinc 924,074	{ 5,184 54,813 42,679	<sup>9</sup> 16,534 (NA) (NA)	lead <sup>9</sup> 515,818 zinc <sup>9</sup> 768,214	{ (NA) (NA) (NA)
Lead concentrates.....							
Zinc concentrates.....							
Lode gold:							
Crude ore mined in the Lode Gold Industry (production and net shipments).....	Production: 1,000 short tons of ores or concentrates	2,358 28 (NA)	gold 137.3 680.3	{ 1,192 3,790 24,090	<sup>10</sup> 2,518 (NA) (NA)	gold <sup>11</sup> 110.4 <sup>12</sup> 692.3	{ (NA) (NA) (NA)
Gold concentrates.....							
Mill bullion.....							
Placer gold.....	1,000 fine ounces.....	362.1	362.5	12,580	371	(NA)	<sup>7</sup> 12,984
Silver ores:							
Crude ore mined in the Silver Ores Industry (production and net shipments).....	Production: 1,000 short tons of ores or concentrates	496  <sup>14</sup> 21	silver 13,234	{ 1,419 11,674	<sup>13</sup> 639 (NA)	silver <sup>15</sup> 12,910	{ (NA) (NA)
Silver concentrates and mill bullion.....							
Bauxite:							
Crude bauxite.....	1,000 long tons.....	1,612	1,662	15,607	1,584	(NA)	(NA)
Prepared bauxite.....	...do.....	136	137	2,548	137	(NA)	(NA)
Net shipments.....	...do.....	xxx	{ <sup>2</sup> 1,658 <sup>3</sup> 1,656	<sup>2</sup> 17,089 <sup>3</sup> 17,355	xxx	1,649	13,984
Manganese ores:							
Crude manganese ores.....	...do.....	1,395	508	17,448	(NA)	(NA)	(NA)
Net shipments.....	...do.....	xxx	{ <sup>2</sup> 336 <sup>3</sup> 460	<sup>2</sup> 27,156 <sup>3</sup> 32,776	xxx	<sup>16</sup> 326	<sup>16</sup> 24,140
Tungsten ores:							
Crude tungsten ores.....	1,000 short tons.....	188	...	...	(NA)	(NA)	(NA)
Tungsten concentrates.....	...do.....	6	6	13,675	(NA)	<sup>17</sup> 4	<sup>17</sup> 3,991
Chromium ores:							
Crude chromium ores.....	...do.....	300	}	150	(NA)	144	6,187
Chromium concentrates.....	...do.....	(D)					
Molybdenum concentrates.....	...do.....	36	37	49,993	<sup>18</sup> 21	<sup>18</sup> 21	50,371
Mercury ores:							
Crude mercury ores.....	...do.....	<sup>19</sup> 400	(D)	(D)	<sup>20</sup> 328	(NA)	(NA)
Mercury metal.....	Flasks (70 pounds)....	<sup>19</sup> 33,812	<sup>19</sup> 37,144	<sup>21</sup> 8,402	38,067	(NA)	8,720
Titanium ores:							
Crude titanium ores.....	1,000 short tons.....	13,244	...	...	(NA)	(NA)	(NA)
Titanium concentrates.....	...do.....	606	598	12,365	571	567	11,365
Uranium-radium-vanadium ores:							
Crude uranium-vanadium ores.....	...do.....	5,480	3,622	91,303	5,178	(NA)	<sup>22</sup> 116,515
Uranium-vanadium concentrates.....	...do.....	59	59	243,080	<sup>23</sup> 13	(NA)	<sup>22</sup> 238,000

See footnotes at end of table.

Table 7.—Quantity and Value of Mineral Products as Reported to the Bureau of the Census and to the Bureau of Mines for the United States, Alaska, and Hawaii: 1958—Continued

Product	Unit of measure	Bureau of the Census statistics			Bureau of Mines statistics		
		Production (quantity)	Shipments, including interplant transfers		Production (quantity)	Shipments	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
<u>METAL ORES AND CONCENTRATES--Continued</u>							
Bastnaesite and monazite concentrates....	Short tons.....	5,663	1,074	250	(NA)	987	(NA)
Beryllium concentrates.....	...do.....	474	474	213	463	463	238
Zirconium concentrates.....	...do.....	36,458	40,734	1,678	30,443	(NA)	241,248
Antimony concentrates, platinum, and thorium concentrates.....	.....	xxx	xxx	213,157	xxx	xxx	(NA)
<u>COAL</u>							
Anthracite:							
Net production and net shipments.....	1,000 short tons.....	22,258	{ 221,630 252,341 }	{ 2197,218 25196,425 }	21,171	20,976	186,665
Bituminous coal:							
Net production and net shipments.....	...do.....	413,580	417,075	2,062,140	408,019	(NA)	281,990,575
Lignite:							
Net production and net shipments.....	...do.....	4,231	4,231	11,021	2,427	(NA)	285,706
<u>OIL AND GAS</u>							
Crude petroleum.....	1,000 barrels.....	272,319,162	2,317,565	6,934,158	} 2,448,987	(NA)	287,379,973
Field condensate and drips.....	...do.....	(NA)	48,647	148,036			
Natural gas.....	Million cu. ft.....	12,152,585	10,134,236	1,294,271	13,146,635	2811,030,248	281,317,492
Natural gas liquids:							
Net production and net shipments.....	1,000 barrels.....	294,192	294,887	699,328	294,749	292,128	28689,710
<u>NONMETALLIC MINERALS, EXCEPT FUELS</u>							
Dimension stone, total.....	1,000 short tons.....	(NA)	2,957	80,559	282,522	(NA)	2880,254
Rough (net).....	...do.....	(NA)	1,662	18,613	301,220	(NA)	3018,152
Dressed.....	...do.....	(NA)	1,295	61,946	301,302	(NA)	3062,102
Limestone, total.....	...do.....	(NA)	1,129	18,331	28979	(NA)	2818,757
Rough (net).....	...do.....	(NA)	705	7,009	28542	(NA)	284,239
Dressed.....	...do.....	(NA)	424	11,322	28437	(NA)	2814,518
Granite, total.....	...do.....	(NA)	807	29,827	28621	(NA)	2824,059
Rough (net).....	...do.....	(NA)	333	3,711	28281	(NA)	289,419
Dressed.....	...do.....	(NA)	474	26,116	28340	(NA)	2814,640
Stone, nec, total.....	...do.....	(NA)	1,021	32,401	28922	(NA)	2837,438
Rough (net).....	...do.....	(NA)	624	7,893	30397	(NA)	304,494
Dressed.....	...do.....	(NA)	397	24,508	30525	(NA)	3032,944
Crushed and broken stone (net), total....	...do.....	(NA)	(NA)	(NA)	28533,401	(NA)	28746,431
Excluding Federal, State, and local government operations.....	...do.....	31484,592	405,240	616,649	(NA)	(NA)	(NA)
Commercial.....	...do.....	(NA)	(NA)	(NA)	28483,634	(NA)	28694,801
Government and contractor.....	...do.....	(NA)	(NA)	(NA)	2849,767	(NA)	2851,630
Limestone <sup>32</sup> .....	...do.....	31388,360	309,491	459,564	28390,468	(NA)	28516,765
Granite <sup>32</sup> .....	...do.....	3133,812	33,812	49,961	2831,337	(NA)	2845,432
Stone, nec <sup>32</sup> .....	...do.....	3162,420	61,937	107,124	28111,596	(NA)	28184,234
Common sand, total.....	...do.....	(NA)	(NA)	(NA)	20230,451	(NA)	28220,386
Excluding Federal, State, and local government operations.....	...do.....	33232,708	33219,407	33219,246	(NA)	(NA)	(NA)
Commercial.....	...do.....	(NA)	(NA)	(NA)	28200,371	(NA)	28203,428
Government and contractor.....	...do.....	(NA)	(NA)	(NA)	2830,080	(NA)	2816,958
Glass sand.....	...do.....	7,446	7,421	21,955	285,575	(NA)	2817,858
Molding sand.....	...do.....	7,763	7,709	19,021	285,632	(NA)	2812,827
Gravel, total.....	...do.....	(NA)	(NA)	(NA)	28442,840	(NA)	281401,718
Excluding Federal, State, and local government operations.....	...do.....	33306,042	33292,516	33309,606	(NA)	(NA)	(NA)
Commercial.....	...do.....	(NA)	(NA)	(NA)	28277,716	(NA)	28291,170
Government and contractor.....	...do.....	(NA)	(NA)	(NA)	28165,124	(NA)	28110,548
Bentonite:							
Crude bentonite.....	...do.....	341,705	35396	351,394	(NA)	(NA)	(NA)
Prepared bentonite.....	...do.....	(NA)	1,343	21,813	(NA)	(NA)	(NA)
Net shipments by the bentonite industry	...do.....	xxx	361,558	3616,505	281,291	(NA)	2815,317
Fire clay:							
Crude fire clay.....	...do.....	388,724	3,517	13,389	} 288,808	(NA)	2840,420
Prepared fire clay.....	...do.....	(NA)	1,033	6,070			

See footnotes at end of table.



Table 7.—Quantity and Value of Mineral Products as Reported to the Bureau of the Census and to the Bureau of Mines for the United States, Alaska, and Hawaii: 1958—Continued

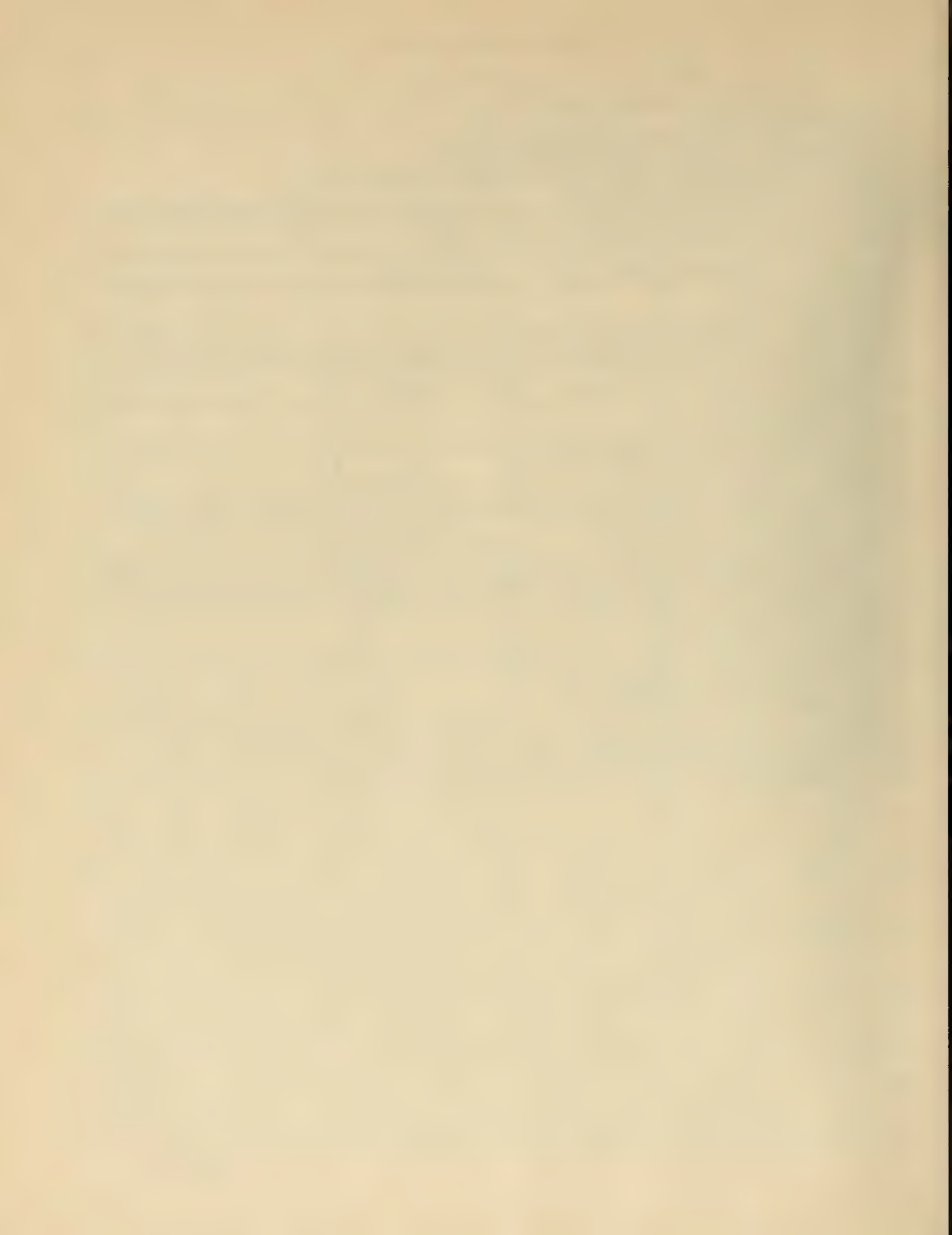
Product	Unit of measure	Bureau of the Census statistics			Bureau of Mines statistics		
		Production (quantity)	Shipments, including interplant transfers		Production (quantity)	Shipments	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
NONMETALLIC MINERALS, EXCEPT FUELS-- Continued							
Fuller's earth: Net shipments.....	1,000 short tons.....	xxx	285	6,778	29358	(NA)	297,609
Kaolin and ball clay: Crude kaolin and ball clay.....	..do.....	343,044	35314	353,066	292,619	(NA)	2941,924
Prepared kaolin and ball clay.....	..do.....	(NA)	2,311	44,598		(NA)	
Feldspar: Crude feldspar.....	..do.....	506	120	866	526	29470	294,278
Prepared feldspar.....	..do.....	(NA)	465	6,608	(NA)	470	6,540
Common clay and shale: <sup>37</sup> Crude common clay and shale.....	..do.....	3831,683	2,044	3,034	2930,674	(NA)	2938,216
Prepared common clay and shale.....	..do.....	(NA)	3,649	26,191		(NA)	
Magnesite and brucite.....	..do.....	34508	154	7,270	633	29642	294,572
Aplite, kyanite, laterite, and olivine..	..do.....	(NA)	234	2,777		(NA)	
Barite: Crude barite.....	..do.....	608	148	1,402	39486	(NA)	(NA)
Prepared barite.....	..do.....	(NA)	401,120	4030,466	411,014	411,027	4128,352
Net shipments by the barite industry..	..do.....	xxx	603	13,434	xxx	29605	297,510
Fluorspar: Production and shipments:							
Crude fluorspar.....	..do.....	836	96	1,785	818	(NA)	(NA)
Prepared fluorspar.....	..do.....	368	366	16,996	(NA)	(NA)	(NA)
Net shipments.....	..do.....	xxx	275	15,443	xxx	320	15,071
Crude fluorspar prepared.....	..do.....	921	(NA)	(NA)	815	(NA)	(NA)
Potash, soda, borate minerals: Potassium salts:							
Crude salts.....	..do.....	12,224	4,002	82,468	12,224	(NA)	(NA)
Processed or refined salts.....	..do.....	3,710			3,640	(NA)	2975,000
Sodium carbonates.....	..do.....	(NA)	639	17,175	(NA)	29629	2917,032
Sodium sulfate.....	..do.....	(NA)	344	6,495	(NA)	347	6,716
Boron compounds.....	..do.....	(NA)	2559	232,275	(NA)	528	38,310
Phosphate rock: Crude ore or matrix.....	1,000 long tons.....	46,031	3,162	8,922	46,459	(NA)	(NA)
Washed or concentrated.....	..do.....	12,636	8,492	41,607	12,360	(NA)	(NA)
Dried, calcined, or sintered.....	..do.....	11,747	11,817	81,440	11,486	(NA)	(NA)
Net shipments.....	..do.....	xxx	4215,605	4299,036	xxx	2914,714	2992,769
Rock salt.....	1,000 short tons.....	(NA)	25,447	240,525	(NA)	295,407	2937,125
Native sulfur and sulfur ore.....	1,000 long tons.....	4,654	4,619	106,200	4,646	4,798	110,777
Frasch process sulfur.....	..do.....	4,642	4,607	105,995	4,643	4,644	109,272
Sulfur ore.....	..do.....	12	12	205	6	154	1,505
Pyrites.....	..do.....	1,025	377	2,392	974	(NA)	297,987
Elemental sulfur.....	..do.....	669	628	16,465	642	(NA)	(NA)
Gypsum: Crude.....	1,000 short tons.....	439,384	737	1,414	9,600	(NA)	2632,495
Prepared (crushed, ground, screened, or dried).....	..do.....	(NA)	3,829	15,939	(NA)	(NA)	(NA)
Mica: Hand-cobbed mica.....	1,000 pounds.....	3,407	3,395	849	293,478	(NA)	(NA)
Sheet mica.....	..do.....	407	406	2,702	44661	(NA)	442,844
Scrap (or flake) mica.....	Short tons.....	106,326	48,478	989	2993,347	(NA)	292,065
Ground mica.....	..do.....	(NA)	114,892	5,950	2997,529	(NA)	295,560
Native asphalt and bitumens: Gilsonite.....	1,000 short tons.....	317	321	4,700	317	(NA)	294,864
Bituminous limestone and sandstone....	..do.....	1,298	1,298	3,327	1,326	(NA)	293,343
Pumice and pumicite.....	..do.....	2,093	2,073	5,486	291,973	(NA)	295,287
Talc, soapstone, and pyrophyllite: Crude.....	..do.....	726	2237	21,574	45718	(NA)	454,718
Prepared.....	..do.....	(NA)	600	17,593	45633	(NA)	4513,856
Natural abrasives, except sand.....	..do.....	66	65	3,510	4869	(NA)	481,474
Peat.....	..do.....	366	365	4,253	328	(NA)	293,446
Asbestos, crude and prepared.....	..do.....	44	244	24,900	44	(NA)	295,127
Diatomite, prepared.....	..do.....	458	452	20,114	29438	(NA)	2920,216
Perlite: Crude.....	..do.....	364	18	92	372	(NA)	(NA)
Prepared <sup>47</sup> .....	..do.....	278	265	2,512	29292	(NA)	292,464
Other nonmetallic minerals: Crude.....	..do.....	206	2	35	(NA)	(NA)	294,387
Prepared.....	..do.....	204	209	3,696	(NA)	(NA)	

See footnotes on next page.

## FOOTNOTES—TABLE 7

- D Withheld to avoid disclosing figures for individual companies.  
 NA Not available.
- <sup>1</sup>Manganiferous iron ore is included with "Iron ore, except manganiferous iron ore."
  - <sup>2</sup>Represents gross shipments less receipts from other establishments for preparation. For iron ore, see also footnote 1.
  - <sup>3</sup>Represents shipments of direct-shipping ore, concentrates to consumers, and agglomerates.
  - <sup>4</sup>Represents manganiferous iron ore and for Minnesota ferruginous manganese ore.
  - <sup>5</sup>Represents only ores mined in the Copper Ores, Lead and Zinc Ores, Lode Gold, and Silver Ores Industries.
  - <sup>6</sup>Census quantity figures represent gross metal content, and all figures except those for placer gold exclude Alaska. Bureau of Mines quantity figures represent recoverable metal content of mine production.
  - <sup>7</sup>Estimated by the Bureau of Mines from the quantity of mine production and an average price. For copper, lead, and zinc, represents the weighted average unit price of domestic refined metals delivered to purchases. For gold, represents the price under authority of the Gold Reserve Act of January 31, 1944. For silver, represents the Treasury buying price for newly mined silver.
  - <sup>8</sup>Represents "copper ore" sold or treated. Shipments represent recoverable content.
  - <sup>9</sup>Represents "lead ore," "zinc ore," "lead-zinc ore," and "copper-lead, copper-zinc, and copper-lead-zinc ores." Shipments represent recoverable content.
  - <sup>10</sup>Represents "gold ore" and "gold-silver ore" produced. Shipments represent recoverable content.
  - <sup>11</sup>Represents metal contained in "gold ore" and "gold-silver ore" produced less mill bullion produced. Shipments represent recoverable content.
  - <sup>12</sup>Represents production.
  - <sup>13</sup>Represents "silver ore" produced.
  - <sup>14</sup>Represents concentrates only.
  - <sup>15</sup>Represents recoverable metal contained in "silver ore" and mill bullion.
  - <sup>16</sup>Represents manganese ore (35 percent or more manganese) and ferruginous manganese ore except in Minnesota. These shipments represent marketable ores from the consumer's standpoint; besides direct-shipping ore, they include without duplication concentrates and nodules made from domestic ores.
  - <sup>17</sup>Represents concentrates from domestic ores. Census figures include concentrates produced in the United States from imported material.
  - <sup>18</sup>Represents molybdenum content of concentrates.
  - <sup>19</sup>Excludes figures for Alaska. The Bureau of Mines showed production of 3,380 flasks of mercury in Alaska.
  - <sup>20</sup>Represents mercury ores treated.
  - <sup>21</sup>The value of mercury metal produced in Alaska is excluded from the figure for mercury metal and included with the value of "Antimony concentrates, platinum, and thorium concentrates."
  - <sup>22</sup>Represents value of production f.o.b. mine.
  - <sup>23</sup>Represents tonnage of  $U_3O_8$  contained in uranium concentrates produced.
  - <sup>24</sup>Estimated from the quantity of mine production and the year-end price of zircon concentrates at Jacksonville.
  - <sup>25</sup>Represents raw coal shipped for use without preparation plus prepared coal.
  - <sup>26</sup>Represents value of production.
  - <sup>27</sup>Represents crude petroleum shipped plus crude petroleum produced and used in the same establishment in lease operations.
  - <sup>28</sup>Represents marketed production, "comprising gas sold or consumed by producers, including losses in transmission, amounts added to storage, and increases in gas in pipe lines." Census figures show 562,731 million cubic feet of gas produced and used in the same establishment in lease operations and net increase in underground storage of 12,368 million cubic feet; these figures are not included in the Census shipments figures shown.
  - <sup>29</sup>Represents minerals sold or used by producers.
  - <sup>30</sup>Figures for rough monumental marble are included with those for dressed monumental marble. See also footnote 29.
  - <sup>31</sup>Represents stone shipments plus stone mined and used in the same establishment in making cement, lime, and other manufactured products. Figures for a small tonnage of granite mined and used in the same establishment are excluded from the Granite figures and included with those for Stone, nec.
  - <sup>32</sup>Census figures exclude operations by Federal, State, and local governments. Bureau of Mines figures represent totals for all stone sold or used by commercial, Government, and contractor operations. For Alaska and Hawaii, Census figures for Granite are included with those for Limestone. For Hawaii, Census shipments figures include the quantity and estimated value of limestone mined and used in the same establishment in making lime.
  - <sup>33</sup>Figures for Common sand exclude and figures for Gravel include sand produced in Alaska and Hawaii.
  - <sup>34</sup>Represents quantity mined and prepared in the same establishment plus quantity of crude net shipments.
  - <sup>35</sup>Represents net shipments by mineral industries.
  - <sup>36</sup>Includes shipments of crude bentonite by mineral industries other than Bentonite.
  - <sup>37</sup>Census figures exclude Hawaii.
  - <sup>38</sup>Represents quantity mined and used in the same establishment in making cement, clay products, and prepared clay plus quantity of crude clay shipped.
  - <sup>39</sup>Represents mine or plant output of primary barite.
  - <sup>40</sup>Includes some barite that was prepared by washing only.
  - <sup>41</sup>Represents crushed and ground barite sold by producers.
  - <sup>42</sup>Represents shipments of crude ore or matrix, except to washer or concentrator; washed or concentrated rock, except to drier; and dried, calcined, or sintered rock.
  - <sup>43</sup>In addition to gypsum mined for shipment in crude or prepared form, includes 5,581 tons of gypsum valued at approximately \$21,174 thousand, produced and used in the same establishment in the manufacture of calcined gypsum products.
  - <sup>44</sup>Represents sheet mica plus full-trimmed equivalent of hand-cobbed mica. See also footnote 29.
  - <sup>45</sup>Excludes dimension soapstone. For crude material, see also footnote 26, and for prepared material, see also footnote 29.
  - <sup>46</sup>Represents minerals sold or used by producers. For tripoli included, represents value of crude material.
  - <sup>47</sup>Includes simple preparation methods, such as drying and crushing; does not include expansion.





# SIZE OF ESTABLISHMENTS

2-1



## MINERAL INDUSTRIES—SUMMARY STATISTICS

Table 1.—Number of Mineral Operations in the United States Classified by Employment Size,  
by Industry Group and Industry: 1958; and for the United States: 1954

(For the mineral industries represents number of establishments)

Ind. code	Industry group and industry	All oper- ations, total	Operations with an average of—										1,000- 2,499 em- ployees	2,500 em- ployees and over
			No em- ployees	1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 em- ployees	250-499 em- ployees	500-999 em- ployees			
	All mineral operations.....	37,784	4,222	16,273	5,831	5,180	3,881	1,227	755	255	108	46	5	
	Mineral industries:													
	1958.....	36,218	4,127	15,466	5,592	5,005	3,710	1,177	734	250	106	45	5	
	1954.....	37,446	5,958	14,833	5,918	4,543	3,635	1,240	802	321	145	41	10	
	Included in manufactures.....	1,566	95	807	239	175	171	50	21	5	2	1	...	
10	Metal mining.....	2,233	589	898	211	152	129	84	97	36	19	17	...	
1011	Iron ores.....	242	22	49	20	22	32	25	43	17	7	5	...	
1021	Copper ores.....	148	32	54	14	10	6	3	5	7	7	9	1	
1031	Lead and zinc ores.....	288	64	117	31	24	17	11	13	8	2	1	...	
	Lead ores.....	211	(1)	152	18	15	11	3	7	2	2	1	...	
	Zinc ores.....	77	(1)	29	13	9	6	8	6	...	...	...	...	
104	Gold and silver ores.....	379	161	171	18	9	9	7	2	...	1	1	...	
1042	Lode gold.....	244	(1)	212	15	5	7	4	...	...	...	1	...	
1043	Placer gold.....	74	(1)	69	2	...	...	2	1	...	...	...	...	
1044	Silver ores.....	61	(1)	51	1	4	2	1	1	...	1	...	...	
1051	Bauxite.....	29	4	11	2	3	7	...	2	...	...	...	...	
106	Ferroalloy ores.....	294	97	111	31	22	16	9	5	1	1	1	...	
1062	Manganese ores.....	186	(1)	122	22	20	13	7	1	...	1	...	...	
1064	Tungsten ores.....	32	(1)	23	4	1	2	...	2	...	...	...	...	
1069	Ferroalloy ores, nec.....	76	(1)	63	5	1	1	2	2	1	...	1	...	
108	Metal mining services.....	95	7	41	13	11	11	5	7	...	...	...	...	
1081	Metal mining stripping services..	29	(1)	14	4	5	3	2	1	...	...	...	...	
1082	Metal mining services, nec.....	66	(1)	34	9	6	8	3	6	...	...	...	...	
109	Miscellaneous metal ores.....	758	202	344	82	51	31	24	20	3	1	...	...	
1092	Mercury ores.....	79	(1)	59	6	5	5	3	1	...	...	...	...	
1093	Titanium ores.....	11	(1)	2	...	2	2	1	3	1	...	...	...	
1094	Uranium-radium-vanadium ores.....	602	(1)	431	71	39	23	19	16	2	1	...	...	
1099	Metallic ores, nec.....	66	(1)	54	5	5	1	1	...	...	...	...	...	
11	Anthracite mining.....	1,248	474	359	154	102	86	26	31	10	2	4	...	
1111	Anthracite.....	1,163	473	343	139	91	59	19	25	8	2	4	...	
1112	Anthracite stripping services.....	79	1	16	15	8	27	7	6	2	...	...	...	
1113	Anthracite mining services, nec....	6	1	...	...	3	...	...	...	...	...	...	...	
12	Bituminous coal mining.....	6,930	432	2,578	1,379	1,170	705	252	246	121	46	1	...	
1211	Bituminous coal.....	6,715	400	2,499	1,338	1,136	679	251	244	121	46	1	...	
1212	Lignite.....	58	15	25	7	3	7	...	1	...	...	...	...	
1213	Coal stripping services, nec.....	137	12	47	30	29	18	1	...	...	...	...	...	
1214	Coal mining services, nec.....	20	5	7	4	2	1	...	1	...	...	...	...	
13	Oil and gas extraction.....	18,501	1,974	9,079	2,527	2,232	1,752	575	244	59	32	22	5	
1311	Crude petroleum and natural gas....	11,993	1,770	6,805	1,369	957	638	234	133	45	23	16	3	
	Crude petroleum.....	10,603	(1)	7,517	1,243	869	580	202	117	36	21	15	3	
	Natural gas.....	1,390	(1)	1,058	126	88	58	32	16	9	2	1	...	
1321	Natural gas liquids.....	593	8	80	71	144	213	64	13	...	...	...	...	
138	Oil and gas field services.....	5,915	196	2,194	1,087	1,131	901	277	98	14	9	6	2	
1381	Drilling oil and gas wells.....	3,064	63	926	579	676	557	192	58	9	3	1	...	
1382	Oil and gas exploration services.....	347	15	142	55	59	37	20	14	2	2	1	...	
1389	Oil and gas field services, nec..	2,504	118	1,126	453	396	307	65	26	3	4	4	2	
14	Nonmetallic minerals mining.....	8,872	753	3,359	1,560	1,523	1,210	290	137	29	9	2	...	
	Mineral industries.....	7,306	658	2,552	1,321	1,348	1,039	240	116	24	7	1	...	
	Included in manufactures.....	1,566	95	807	239	175	171	50	21	5	2	1	...	
1411	Dimension stone.....	557	56	219	87	76	70	25	16	5	2	1	...	
	Mineral industry.....	335	54	156	54	45	22	2	2	...	...	...	...	
	Included in manufactures.....	222	2	63	33	31	48	23	14	5	2	1	...	
	Dimension limestone (mineral subindustry).....	68	(1)	46	7	7	7	...	1	...	...	...	...	
	Dimension granite (mineral subindustry).....	76	(1)	29	27	11	6	2	1	...	...	...	...	
	Dimension stone, nec (mineral subindustry).....	191	(1)	135	20	27	9	...	...	...	...	...	...	
1421	Crushed and broken stone.....	2,176	82	447	326	580	566	129	40	5	1	...	...	
	Mineral industry.....	1,957	80	416	292	525	490	112	36	5	1	...	...	
	Included in manufactures.....	219	2	31	34	55	76	17	4	...	...	...	...	
	Crushed and broken limestone (mineral subindustry).....	1,458	(1)	334	218	422	373	80	26	4	1	...	...	
	Crushed and broken granite (mineral subindustry).....	121	(1)	26	14	20	43	15	3	...	...	...	...	
	Crushed and broken stone, nec (mineral subindustry).....	378	(1)	136	60	83	74	17	7	1	...	...	...	
1441	Sand and gravel.....	4,084	360	1,743	829	643	414	67	27	1	...	...	...	
	Mineral industry.....	3,703	332	1,510	776	603	395	61	25	1	...	...	...	
	Included in manufactures.....	381	28	233	53	40	19	6	2	...	...	...	...	
	Common sand and gravel (mineral subindustry).....	3,534	(1)	1,765	744	578	369	56	22	...	...	...	...	
	Glass sand.....	45	(1)	10	5	11	13	3	2	1	...	...	...	
	Molding sand.....	124	(1)	67	27	14	13	2	1	...	...	...	...	

See footnote at end of table.

Table 1.—Number of Mineral Operations in the United States Classified by Employment Size, by Industry Group and Industry: 1958; and for the United States: 1954—Continued

Ind. code	Industry group and industry	All operations, total	Operations with an average of—										
			No em- ployees	1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 em- ployees	250-499 em- ployees	500-999 em- ployees	1,000-2,499 em- ployees	2,500 em- ployees and over
	Nonmetallic minerals mining--Con.												
145	Clay and related minerals.....	1,202	135	643	188	107	93	21	10	5	...	...	...
	Mineral industries.....	490	72	164	75	67	76	21	10	5	...	...	...
	Included in manufactures.....	712	63	479	113	40	17	...	...	...	...	...	...
1452	Bentonite.....	41	(1)	114	5	7	12	3	...	...	...	...	...
1453	Fire clay (mineral industry only)	182	(1)	192	45	26	15	3	1	...	...	...	...
1454	Fuller's earth.....	14	(1)	13	1	4	4	...	1	1	...	...	...
1455	Kaolin and ball clay.....	53	(1)	110	6	11	12	5	5	4	...	...	...
1456	Feldspar.....	74	(1)	156	4	4	8	1	1	...	...	...	...
1457	Magnesite and brucite.....	4	...	1	...	...	...	1	2	...	...	...	...
1459	Clay and related minerals, nec (mineral industry only).....	122	(1)	160	14	15	25	8	...	...	...	...	...
147	Chemical and fertilizer minerals...	271	15	79	38	37	20	31	34	10	6	1	...
1472	Barite.....	53	(1)	128	7	10	2	4	2	...	...	...	...
1473	Fluorspar.....	55	(1)	123	12	9	3	5	2	1	...	...	...
1474	Potash, soda, borate minerals...	21	(1)	13	3	1	2	2	1	4	4	1	...
1475	Phosphate rock.....	65	(1)	19	10	9	8	12	15	1	1	...	...
1476	Rock salt.....	22	(1)	19	1	...	2	4	3	3	...	...	...
1477	Sulfur.....	24	(1)	18	1	2	...	2	9	1	1	...	...
1479	Chemical-fertilizer mining, nec..	31	(1)	14	4	6	3	2	2	...	...	...	...
148	Nonmetallic minerals services.....	75	3	32	21	13	3	1	1	1	...	...	...
1481	Nonmetallic minerals stripping...	47	(1)	121	16	7	2	...	...	1	...	...	...
1482	Nonmetallic services, nec.....	28	(1)	14	5	6	1	1	1	...	...	...	...
	Miscellaneous minerals, nec.....	507	102	196	71	67	44	16	9	2	...	...	...
149	Mineral industries.....	475	102	195	65	58	33	12	8	2	...	...	...
	Included in manufactures.....	32	...	1	6	9	11	4	1	...	...	...	...
1492	Gypsum (mineral industry only)...	32	(1)	113	8	7	2	1	1	...	...	...	...
1493	Mica.....	149	(1)	106	17	18	7	1	...	...	...	...	...
1494	Native asphalt and bitumens.....	10	(1)	11	1	3	2	2	1	...	...	...	...
1495	Pumice and pumicite.....	64	(1)	144	10	8	2	...	...	...	...	...	...
1496	Talc, soapstone, pyrophyllite...	64	(1)	138	6	8	7	2	2	1	...	...	...
1497	Natural abrasives, except sand...	20	(1)	111	4	1	3	...	1	...	...	...	...
1498	Peat.....	81	(1)	158	16	4	2	1	...	...	...	...	...
1499	Nonmetallic minerals, nec.....	55	(1)	126	3	9	8	5	3	1	...	...	...

<sup>1</sup>Figures for the "No employees" class are included with those for the "1-4 employees" class.



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 2.—Number of Mineral Operations in the United States Classified by Employment Size, by Divisions, States, Alaska, and Hawaii: 1958

(For the mineral industries represents number of establishments)

Division and State	All operations, total	Operations with an average of										
		No em- ployees	1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 em- ployees	250-499 em- ployees	500-999 em- ployees	1,000-2,499 em- ployees	2,500 em- ployees and over
United States, total.....	37,784	4,222	16,273	5,831	5,180	3,881	1,227	755	255	108	46	6
Mineral industries.....	36,218	4,127	15,466	5,592	5,005	3,710	1,177	734	250	106	45	6
Included in manufactures.....	1,566	95	807	239	175	171	50	21	5	2	1	...
MINERAL INDUSTRIES												
New England.....	344	31	131	81	62	31	5	3	...	...	...	...
Maine.....	55	10	27	10	6	1	1	...	...	...	...	...
New Hampshire.....	38	2	20	9	4	3	...	...	...	...	...	...
Vermont.....	41	5	16	5	8	4	...	3	...	...	...	...
Massachusetts.....	111	9	34	35	21	10	2	...	...	...	...	...
Rhode Island.....	18	...	8	6	1	3	...	...	...	...	...	...
Connecticut.....	81	5	26	16	22	10	2	...	...	...	...	...
Middle Atlantic.....	4,500	800	1,912	642	510	378	97	97	38	20	6	...
New York.....	543	59	275	85	55	39	14	10	5	1	...	...
New Jersey.....	135	4	40	20	29	30	6	4	2	...	...	...
Pennsylvania.....	3,822	737	1,597	537	426	309	77	83	31	19	6	...
East North Central.....	4,313	432	1,894	677	651	414	108	97	27	11	2	...
Ohio.....	1,436	134	663	223	229	123	37	18	8	1	...	...
Indiana.....	720	91	321	106	107	69	11	11	4	...	...	...
Illinois.....	1,323	112	547	205	206	154	43	41	9	6	...	...
Michigan.....	539	54	258	75	65	39	13	25	5	3	2	...
Wisconsin.....	295	41	105	68	44	29	4	2	1	1	...	...
West North Central.....	3,221	376	1,411	526	456	315	75	49	6	3	4	...
Minnesota.....	289	28	80	49	43	36	18	26	5	2	2	...
Iowa.....	293	26	100	71	56	38	1	1	...	...	...	...
Missouri.....	435	27	178	95	66	47	15	6	...	...	1	...
North Dakota.....	167	33	66	24	19	18	4	3	...	...	...	...
South Dakota.....	133	47	52	12	9	8	4	...	...	...	1	...
Nebraska.....	305	58	131	48	41	25	1	1	...	...	...	...
Kansas.....	1,599	157	804	227	222	143	32	12	1	1	...	...
South Atlantic.....	4,701	285	2,009	808	700	494	179	136	70	20	...	...
Delaware.....	12	1	5	1	4	1	...	...	...	...	...	...
Maryland.....	164	9	62	28	36	21	4	4	...	...	...	...
District of Columbia.....	...	...	...	...	...	...	...	...	...	...	...	...
Virginia.....	1,033	35	315	258	229	138	36	13	8	1	...	...
West Virginia.....	2,817	169	1,414	430	332	218	95	86	55	18	...	...
North Carolina.....	231	47	81	26	24	36	11	5	1	...	...	...
South Carolina.....	65	3	21	8	12	10	8	3	...	...	...	...
Georgia.....	173	14	53	22	26	33	13	7	5	...	...	...
Florida.....	206	7	58	35	37	37	12	18	1	1	...	...
East South Central.....	3,215	258	1,222	592	568	353	107	75	30	9	1	...
Kentucky.....	2,111	133	890	400	354	200	60	53	17	4	...	...
Tennessee.....	533	55	171	99	114	71	13	8	1	...	1	...
Alabama.....	316	45	70	53	65	46	16	6	11	4	...	...
Mississippi.....	255	25	91	40	35	36	18	8	1	1	...	...
West South Central.....	10,062	879	4,416	1,478	1,394	1,230	404	172	44	23	17	5
Arkansas.....	443	60	178	73	71	46	7	8	...	...	...	...
Louisiana.....	1,121	87	377	133	180	189	81	46	12	9	7	...
Oklahoma.....	2,643	265	1,294	388	354	243	60	26	8	3	2	...
Texas.....	5,855	467	2,567	884	789	752	256	92	24	11	8	5
Mountain.....	3,803	738	1,580	501	418	296	144	72	26	17	10	1
Montana.....	440	101	213	51	36	18	12	5	1	1	2	...
Idaho.....	170	39	79	18	12	9	7	1	3	2	...	...
Wyoming.....	492	80	187	78	60	50	23	9	4	1	...	...
Colorado.....	967	172	433	134	99	78	33	10	7	...	1	...
New Mexico.....	761	100	290	110	119	82	31	19	3	6	1	...
Arizona.....	320	98	125	27	30	15	8	4	4	4	4	1
Utah.....	450	91	175	60	45	29	24	20	1	3	2	...
Nevada.....	203	57	78	23	17	15	6	4	3	...	...	...
Pacific.....	2,059	328	891	287	246	199	58	33	9	3	5	...
Washington.....	200	31	88	32	21	21	4	3	...	...	...	...
Oregon.....	201	45	92	32	19	9	4	...	...	...	...	...
California.....	1,658	252	711	223	206	169	50	30	9	3	5	...
Alaska.....	156	88	41	7	9	7	3	1	...	...	...	...
Hawaii.....	20	...	6	2	4	4	4	...	...	...	...	...

# SIZE OF ESTABLISHMENTS

2-5

Table 2.—Number of Mineral Operations in the United States Classified by Employment Size, by Divisions, States, Alaska, and Hawaii: 1958—Continued

Division and State	All operations, total	Operations with an average of										
		No em- ployees	1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 em- ployees	250-499 em- ployees	500-999 em- ployees	1,000- 2,499 em- ployees	2,500 em- ployees and over
INCLUDED IN MANUFACTURES												
New England.....	99	8	42	13	17	8	7	2	1	...	1	...
Maine.....	13	2	5	1	...	2	3	...	...	...	...	...
New Hampshire.....	7	...	5	...	1	...	1	...	...	...	...	...
Vermont.....	26	2	5	4	6	3	3	2	...	...	1	...
Massachusetts.....	33	2	18	5	5	2	...	...	1	...	...	...
Rhode Island.....	4	...	1	1	1	1	...	...	...	...	...	...
Connecticut.....	16	2	8	2	4	...	...	...	...	...	...	...
Middle Atlantic.....	250	10	129	39	25	32	14	1	...	...	...	...
New York.....	79	4	34	19	9	10	3	...	...	...	...	...
New Jersey.....	15	2	10	1	...	1	1	...	...	...	...	...
Pennsylvania.....	156	4	85	19	16	21	10	1	...	...	...	...
East North Central.....	349	30	183	46	37	35	10	7	...	1	...	...
Ohio.....	163	19	85	21	15	16	5	2	...	...	...	...
Indiana.....	61	2	35	5	5	7	2	4	...	1	...	...
Illinois.....	52	2	27	11	7	4	1	...	...	...	...	...
Michigan.....	35	6	14	4	7	3	...	1	...	...	...	...
Wisconsin.....	38	1	22	5	3	5	2	...	...	...	...	...
West North Central.....	163	13	78	24	16	24	4	2	1	1	...	...
Minnesota.....	28	2	14	2	3	4	1	1	...	1	...	...
Iowa.....	42	5	25	5	3	3	1	...	...	...	...	...
Missouri.....	34	2	11	5	5	9	...	1	1	...	...	...
North Dakota.....	5	2	2	1	...	...	...	...	...	...	...	...
South Dakota.....	9	...	4	2	...	2	1	...	...	...	...	...
Nebraska.....	12	2	7	1	...	1	1	...	...	...	...	...
Kansas.....	33	...	15	8	5	5	...	...	...	...	...	...
South Atlantic.....	174	6	88	31	18	22	6	1	2	...	...	...
Delaware.....	3	...	3	...	...	...	...	...	...	...	...	...
Maryland.....	27	1	13	5	7	1	...	...	...	...	...	...
District of Columbia.....	2	...	2	...	...	...	...	...	...	...	...	...
Virginia.....	33	...	17	6	2	6	1	1	...	...	...	...
West Virginia.....	9	1	2	2	2	2	...	...	...	...	...	...
North Carolina.....	36	2	24	6	...	1	2	...	1	...	...	...
South Carolina.....	21	2	15	2	1	1	...	...	...	...	...	...
Georgia.....	29	...	7	6	4	9	2	...	1	...	...	...
Florida.....	14	...	5	4	2	2	1	...	...	...	...	...
East South Central.....	96	4	48	14	10	12	3	4	1	...	...	...
Kentucky.....	12	1	10	...	1	...	...	...	...	...	...	...
Tennessee.....	29	...	11	3	3	7	2	2	1	...	...	...
Alabama.....	41	...	19	9	5	5	1	2	...	...	...	...
Mississippi.....	14	3	8	2	1	...	...	...	...	...	...	...
West South Central.....	154	8	85	22	17	19	1	2	...	...	...	...
Arkansas.....	20	...	9	5	1	4	...	1	...	...	...	...
Louisiana.....	11	...	11	...	...	...	...	...	...	...	...	...
Oklahoma.....	25	2	15	2	1	5	...	...	...	...	...	...
Texas.....	98	6	50	15	15	10	1	1	...	...	...	...
Mountain.....	113	3	64	22	16	6	1	1	...	...	...	...
Montana.....	13	...	10	2	1	...	...	...	...	...	...	...
Idaho.....	13	...	10	2	1	...	...	...	...	...	...	...
Wyoming.....	12	2	7	2	1	...	...	...	...	...	...	...
Colorado.....	25	1	13	5	3	3	...	...	...	...	...	...
New Mexico.....	9	...	2	4	3	...	...	...	...	...	...	...
Arizona.....	18	...	10	3	2	1	1	1	...	...	...	...
Utah.....	18	...	11	3	4	...	...	...	...	...	...	...
Nevada.....	5	...	1	1	1	2	...	...	...	...	...	...
Pacific.....	168	13	90	28	19	13	4	1	...	...	...	...
Washington.....	39	4	22	6	5	2	...	...	...	...	...	...
Oregon.....	29	2	20	5	...	1	1	...	...	...	...	...
California.....	100	7	48	17	14	10	3	1	...	...	...	...
Alaska.....	4	...	3	1	...	...	...	...	...	...	...	...
Hawaii.....	4	...	2	1	1	...	...	...	...	...	...	...



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. Unless otherwise specified, a (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
	All mineral industries:											
	Number of establishments.....	36,218	19,593	5,592	5,005	3,710	1,177	734	250	106	45	6
	All employees:											
	Number.....	<sup>1</sup> 732,632	31,094	37,423	68,352	112,662	81,254	116,995	86,238	71,246	68,917	20,849
	Payroll.....\$1,000..	<sup>1</sup> 3,740,288	102,208	139,865	274,781	515,717	410,932	640,494	470,410	397,993	380,627	130,396
	Production and development workers:											
	Number.....	564,281	28,583	31,084	57,700	94,584	66,697	94,822	70,137	57,703	49,189	13,782
	Man-hours.....1,000..	1,077,864	48,251	55,778	108,398	187,290	135,064	182,344	127,537	106,409	96,220	30,573
	Wages.....\$1,000..	2,616,273	90,892	112,061	219,409	404,592	310,706	481,605	359,423	302,486	255,728	79,371
	Value added in mining....do....	13,381,494	508,866	484,576	886,237	1,663,972	1,357,185	2,291,961	1,785,545	1,682,650	1,842,374	878,128
	Value of shipments and receipts.....do....	18,089,834	778,237	695,795	1,326,697	2,740,453	2,017,303	3,176,524	2,202,916	1,939,222	2,256,326	956,361
	Capital expenditures.....do....	2,797,811	168,924	102,797	226,146	339,805	334,840	447,912	319,703	268,157	424,560	164,967
10	METAL MINING:											
	Number of establishments.....	2,233	1,487	211	152	129	84	97	36	19	17	1
	All employees:											
	Number.....	<sup>1</sup> 92,501	1,767	1,353	2,090	4,043	6,122	15,899	12,287	13,854	<u>29,773</u>	(D)
	Payroll.....\$1,000..	<sup>1</sup> 487,786	6,571	5,795	9,520	20,574	32,863	87,624	64,551	72,270	<u>152,934</u>	(D)
	Production and development workers:											
	Number.....	71,402	1,540	1,089	1,689	3,340	5,112	13,082	10,198	11,317	<u>24,035</u>	(D)
	Man-hours.....1,000..	136,750	2,616	2,054	3,325	6,775	10,107	25,619	19,213	21,236	<u>45,805</u>	(D)
	Wages.....\$1,000..	356,209	5,431	4,568	7,493	16,522	25,890	67,678	50,775	55,863	<u>121,989</u>	(D)
	Value added in mining...do....	1,187,327	20,618	10,464	29,070	48,104	116,994	285,736	215,576	168,509	<u>292,256</u>	(D)
	Value of shipments and receipts.....do....	1,835,845	29,149	15,196	40,592	79,217	177,009	452,728	327,407	235,618	<u>478,929</u>	(D)
	Capital expenditures....do....	214,291	11,216	2,284	9,801	29,075	29,407	73,403	11,079	17,290	<u>30,736</u>	(D)
1011	IRON ORES:											
	Number of establishments.....	242	71	20	22	32	25	43	17	7	5	...
	All employees:											
	Number.....	<sup>1</sup> 31,576	104	134	289	1,063	1,894	6,659	5,705	5,038	6,978	...
	Payroll.....\$1,000..	<sup>1</sup> 174,387	483	472	1,454	5,931	10,233	37,616	30,675	26,123	35,944	...
	Production and development workers:											
	Number.....	23,659	83	104	233	862	1,572	5,764	5,023	4,371	5,647	...
	Man-hours.....1,000..	41,737	146	174	421	1,715	2,684	10,298	8,654	7,631	10,014	...
	Wages.....\$1,000..	120,618	302	387	977	4,682	7,976	30,739	25,720	22,020	27,815	...
	Value added in mining...do....	500,232	6,096	1,065	4,281	19,477	54,097	144,247	145,352	56,330	69,287	...
	Value of shipments and receipts.....do....	681,938	9,223	1,837	6,188	27,277	61,358	183,759	190,806	73,679	127,811	...
	Capital expenditures....do....	42,749	1,052	135	334	11,617	2,600	7,671	4,768	7,880	6,692	...
1021	COPPER ORES:											
	Number of establishments.....	148	86	14	10	6	3	5	7	7	9	1
	All employees:											
	Number.....	<sup>1</sup> 27,642	96	73	130	182	154	850	2,329	5,204	<u>17,023</u>	(D)
	Payroll.....\$1,000..	<sup>1</sup> 143,501	370	311	639	1,119	700	3,678	12,441	25,833	<u>88,782</u>	(D)
	Production and development workers:											
	Number.....	20,898	83	65	114	136	136	720	1,912	4,038	<u>13,694</u>	(D)
	Man-hours.....1,000..	41,021	141	114	244	306	241	1,439	3,993	7,497	<u>27,046</u>	(D)
	Wages.....\$1,000..	106,357	322	280	546	851	574	3,079	9,676	18,419	<u>72,610</u>	(D)
	Value added in mining...do....	266,485	379	406	608	2,055	( <sup>2</sup> )	6,796	30,572	58,327	<u>167,523</u>	(D)
	Value of shipments and receipts.....do....	457,644	472	682	640	<u>3,571</u>	(D)	16,922	59,318	95,782	<u>280,257</u>	(D)
	Capital expenditures....do....	44,874	287	140	534	12,032	2	421	4,071	8,312	<u>19,075</u>	(D)

See footnotes at end of table.

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1031	LEAD AND ZINC ORES:											
	Number of establishments.....	288	181	31	24	17	11	13	8	2	1	...
	All employees:											
	Number.....	11,227	234	203	352	539	749	2,240	6,910	(D)	(D)	...
	Payroll.....\$1,000..	54,397	870	882	1,542	2,455	3,832	11,540	33,276	(D)	(D)	...
	Production and devel- opment workers:											
	Number.....	8,728	202	166	255	413	584	1,622	5,486	(D)	(D)	...
	Man-hours.....1,000..	16,734	323	307	465	783	1,201	3,186	10,469	(D)	(D)	...
	Wages.....\$1,000..	39,001	710	660	1,076	1,776	2,803	7,721	24,255	(D)	(D)	...
	Value added in mining..do....	73,679	613	838	2,742	2,048	8,114	14,638	44,686	(D)	(D)	...
	Value of shipments and receipts.....do....	120,561	1,710	1,280	6,494	5,987	20,445	25,079	59,566	(D)	(D)	...
	Capital expenditures...do....	8,619	691	255	247	1,098	426	2,332	3,570	(D)	(D)	...
	Lead ores subindustry:											
	Number of establishments...	211	152	18	15	11	3	7	2	2	1	...
	All employees:											
	Number.....	6,883	182	118	210	353	187	1,196	4,637	(D)	(D)	...
	Payroll.....\$1,000..	33,759	642	494	950	1,642	1,066	6,245	22,720	(D)	(D)	...
	Production and devel- opment workers:											
	Number.....	5,460	159	95	160	271	158	963	3,654	(D)	(D)	...
	Man-hours.....1,000..	10,397	240	170	280	508	328	1,972	6,899	(D)	(D)	...
	Wages.....\$1,000..	24,843	538	351	691	1,171	821	5,068	16,203	(D)	(D)	...
	Value added in mining.....do....	48,023	488	468	1,258	1,176	3,725	10,054	30,854	(D)	(D)	...
	Value of shipments and receipts.....do....	75,603	1,367	626	4,317	2,925	12,437	13,771	40,160	(D)	(D)	...
	Capital expendi- tures.....do....	4,496	528	199	175	298	226	416	2,654	(D)	(D)	...
	Zinc ores subindustry:											
	Number of establishments...	77	29	13	9	6	8	6	6	...	...	...
	All employees:											
	Number.....	4,344	52	85	142	186	562	1,044	2,273	...	...	...
	Payroll.....\$1,000..	20,638	228	388	592	813	2,766	5,295	10,556	...	...	...
	Production and devel- opment workers:											
	Number.....	3,268	43	71	95	142	426	659	1,832	...	...	...
	Man-hours.....1,000..	6,337	83	137	185	275	873	1,214	3,570	...	...	...
	Wages.....\$1,000..	14,158	172	309	385	605	1,982	2,653	8,052	...	...	...
	Value added in mining.....do....	25,656	125	370	1,484	872	4,389	4,584	13,832	...	...	...
	Value of shipments and receipts.....do....	44,958	343	654	2,177	3,062	8,008	11,308	19,406	...	...	...
	Capital expendi- tures.....do....	4,123	163	56	72	800	200	1,916	916	...	...	...
1042	LODE GOLD:											
	Number of establishments.....	244	212	15	5	7	4	...	...	...	1	...
	All employees:											
	Number.....	2,586	208	88	63	206	2,021	...	...	...	(D)	...
	Payroll.....1,000..	12,447	652	295	226	955	10,319	...	...	...	(D)	...
	Production and devel- opment workers:											
	Number.....	2,234	195	74	46	175	1,744	...	...	...	(D)	...
	Man-hours.....1,000..	4,602	318	127	106	377	3,674	...	...	...	(D)	...
	Wages.....\$1,000..	10,709	602	242	196	811	8,858	...	...	...	(D)	...
	Value added in mining..do....	22,659	646	145	168	2,025	19,675	...	...	...	(D)	...
	Value of shipments and receipts.....do....	29,506	882	97	129	3,801	24,597	...	...	...	(D)	...
	Capital expenditures...do....	1,728	824	249	162	83	410	...	...	...	(D)	...

See footnotes at end of table.



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1043	PLACER GOLD:											
	Number of establishments.....	74	69	2	...	...	2	1	...	...	...	...
	All employees:											
	Number.....	364	63	(D)	...	...	301	(D)	...	...	...	...
	Payroll.....\$1,000..	1,790	151	(D)	...	...	1,639	(D)	...	...	...	...
	Production and devel- opment workers:											
	Number.....	323	56	(D)	...	...	267	(D)	...	...	...	...
	Man-hours.....1,000..	723	87	(D)	...	...	636	(D)	...	...	...	...
	Wages.....\$1,000..	1,515	130	(D)	...	...	1,385	(D)	...	...	...	...
	Value added in mining..do....	4,873	160	(D)	...	...	4,713	(D)	...	...	...	...
1044	SILVER ORES:											
	Number of establishments.....	61	51	1	4	2	1	1	...	1	...	...
	All employees:											
	Number.....	989	53	(D)	104	(D)	832	(D)	...	(D)	...	...
	Payroll.....\$1,000..	5,757	226	(D)	618	(D)	4,913	(D)	...	(D)	...	...
	Production and devel- opment workers:											
	Number.....	854	35	(D)	92	(D)	727	(D)	...	(D)	...	...
	Man-hours.....1,000..	1,746	57	(D)	188	(D)	1,501	(D)	...	(D)	...	...
	Wages.....\$1,000..	4,840	139	(D)	532	(D)	4,169	(D)	...	(D)	...	...
	Value added in mining..do....	10,364	472	(D)	608	(D)	9,284	(D)	...	(D)	...	...
1051	BAUXITE:											
	Number of establishments.....	29	15	2	3	7	...	2	...	...	...	...
	All employees:											
	Number.....	705	21	77	(D)	607	...	(D)	...	...	...	...
	Payroll.....\$1,000..	3,606	62	362	(D)	3,182	...	(D)	...	...	...	...
	Production and develop- ment workers:											
	Number.....	502	14	50	(D)	438	...	(D)	...	...	...	...
	Man-hours.....1,000..	905	18	81	(D)	806	...	(D)	...	...	...	...
	Wages.....\$1,000..	2,290	35	174	(D)	2,081	...	(D)	...	...	...	...
	Value added in mining..do....	15,430	681	429	(D)	14,320	...	(D)	...	...	...	...
1062	MANGANESE ORES:											
	Number of establishments.....	186	122	22	20	13	7	1	...	1	...	...
	All employees:											
	Number.....	2,099	134	141	279	359	1,186	(D)	...	(D)	...	...
	Payroll.....\$1,000..	9,036	380	532	929	1,198	5,997	(D)	...	(D)	...	...
	Production and develop- ment workers:											
	Number.....	1,792	126	114	236	304	1,012	(D)	...	(D)	...	...
	Man-hours.....1,000..	3,475	196	217	446	540	2,076	(D)	...	(D)	...	...
	Wages.....\$1,000..	7,244	347	445	739	991	4,722	(D)	...	(D)	...	...
	Value added in mining..do....	20,014	2,749	1,870	2,609	3,249	9,537	(D)	...	(D)	...	...

See footnotes at end of table.

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1064	TUNGSTEN ORES:											
	Number of establishments.....	32	23	4	1	2	...	2	...	...	...	...
	All employees:											
	Number.....	638	104	(D)	534	(D)	...	(D)	...	...	...	...
	Payroll.....\$1,000..	2,907	2,907	(D)	(D)	(D)	...	(D)	...	...	...	...
	Production and devel- opment workers:											
	Number.....	508	508	(D)	(D)	(D)	...	(D)	...	...	...	...
	Man-hours.....1,000..	977	977	(D)	(D)	(D)	...	(D)	...	...	...	...
	Wages.....\$1,000..	1,993	1,993	(D)	(D)	(D)	...	(D)	...	...	...	...
	Value added in mining..do....	8,164	8,164	(D)	(D)	(D)	...	(D)	...	...	...	...
	Value of shipments and receipts.....do....	14,430	14,430	(D)	...	(D)	...	(D)	...	...	...	...
	Capital expenditures...do....	122	122	(D)	(D)	...	...	(D)	...	...	...	...
1069	FERROALLOY ORES, NEC:											
	Number of establishments.....	76	63	5	1	1	2	2	1	...	1	...
	All employees:											
	Number.....	2,701	51	34	195	(D)	(D)	2,421	(D)	...	(D)	...
	Payroll.....\$1,000..	14,768	179	1,233	(D)	(D)	(D)	13,356	(D)	...	(D)	...
	Production and develop- ment workers:											
	Number.....	2,080	45	198	(D)	(D)	(D)	1,837	(D)	...	(D)	...
	Man-hours.....1,000..	3,883	86	414	(D)	(D)	(D)	3,383	(D)	...	(D)	...
	Wages.....\$1,000..	10,218	168	956	(D)	(D)	(D)	9,094	(D)	...	(D)	...
	Value added in mining..do....	46,077	853	7,954	(D)	(D)	(D)	37,270	(D)	...	(D)	...
	Value of shipments and receipts.....do....	57,706	748	8,838	(D)	...	(D)	48,120	(D)	...	(D)	...
	Capital expenditures...do....	4,233	356	500	(D)	(D)	(D)	3,377	(D)	...	(D)	...
	Chromium ores subindustry:											
	Number of establishments...	63	56	5	1	...	...	1	...	...	...	...
	All employees:											
	Number.....	296	40	256	(D)	...	...	(D)	...	...	...	...
	Payroll.....\$1,000..	1,646	129	1,517	(D)	...	...	(D)	...	...	...	...
	Production and develop- ment workers:											
	Number.....	235	35	200	(D)	...	...	(D)	...	...	...	...
	Man-hours.....1,000..	488	66	422	(D)	...	...	(D)	...	...	...	...
	Wages.....\$1,000..	1,122	120	1,002	(D)	...	...	(D)	...	...	...	...
	Value added in mining.....do....	5,759	687	5,072	(D)	...	...	(D)	...	...	...	...
	Value of shipments and receipts.....do....	6,001	748	5,253	(D)	...	...	(D)	...	...	...	...
	Capital expenditures.....do....	736	135	601	(D)	...	...	(D)	...	...	...	...
	Molybdenum, cobalt, and other ores subindustry:											
	Number of establishments...	13	7	...	...	1	2	1	1	...	1	...
	All employees:											
	Number.....	2,405	11	...	...	2,394	(D)	(D)	(D)	...	(D)	...
	Payroll.....\$1,000..	13,122	50	...	...	13,072	(D)	(D)	(D)	...	(D)	...
	Production and develop- ment workers:											
	Number.....	1,845	10	...	...	1,835	(D)	(D)	(D)	...	(D)	...
	Man-hours.....1,000..	3,395	20	...	...	3,375	(D)	(D)	(D)	...	(D)	...
	Wages.....\$1,000..	9,096	48	...	...	9,048	(D)	(D)	(D)	...	(D)	...
	Value added in mining.....do....	40,318	166	...	...	40,152	(D)	(D)	(D)	...	(D)	...
	Value of shipments and receipts.....do....	51,705	...	...	...	51,705	(D)	(D)	(D)	...	(D)	...
	Capital expenditures.....do....	3,497	221	...	...	3,276	(D)	(D)	(D)	...	(D)	...

See footnotes at end of table.



Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1081	METAL MINING STRIPPING SERVICES:											
	Number of establishments.....	29	14	4	5	3	2	1	...	...	...	...
	All employees:											
	Number.....	553	20	25	67	96	345	(D)	...	...	...	...
	Payroll.....\$1,000..	2,672	66	107	348	491	<u>1,660</u>	(D)	...	...	...	...
	Production and devel- opment workers:											
	Number.....	505	20	18	62	89	316	(D)	...	...	...	...
	Man-hours.....1,000..	1,013	34	39	124	185	<u>631</u>	(D)	...	...	...	...
	Wages.....\$1,000..	2,357	66	73	323	450	<u>1,445</u>	(D)	...	...	...	...
	Value added in mining..do....	8,472	185	220	640	818	<u>6,609</u>	(D)	...	...	...	...
	Value of shipments and receipts.....do....	10,270	257	304	761	1,252	<u>8,467</u>	(D)	...	...	...	...
	Capital expenditures...do....	855	43		41			(D)	...	...	...	...
1082	METAL MINING SERVICES, NEC:											
	Number of establishments.....	66	34	9	6	8	3	6	...	...	...	...
	All employees:											
	Number.....	1,631	63	59	86	270	279	874	...	...	...	...
	Payroll.....\$1,000..	9,425	230	245	422	1,497	1,633	5,398	...	...	...	...
	Production and devel- opment workers:											
	Number.....	1,468	58	50	77	244	204	835	...	...	...	...
	Man-hours.....1,000..	3,261	101	104	175	493	476	1,912	...	...	...	...
	Wages.....\$1,000..	8,267	206	220	369	1,325	1,125	5,022	...	...	...	...
	Value added in mining..do....	14,390	647	546	677	2,464	2,562	7,494	...	...	...	...
	Value of shipments and receipts.....do....	22,114	923	724	1,079	3,417	3,586	12,521	...	...	...	...
	Capital expenditures...do....	408	55	59	123	35			...	...	...	...
1092	MERCURY ORES:											
	Number of establishments.....	79	59	6	5	5	3	1	...	...	...	...
	All employees:											
	Number.....	652	44	33	63	117	395	(D)	...	...	...	...
	Payroll.....\$1,000..	3,112	139	149	382	448	<u>1,994</u>	(D)	...	...	...	...
	Production and devel- opment workers:											
	Number.....	569	41	26	53	105	344	(D)	...	...	...	...
	Man-hours.....1,000..	1,223	80	57	127	214	<u>745</u>	(D)	...	...	...	...
	Wages.....\$1,000..	2,627	128	120	317	399	<u>1,663</u>	(D)	...	...	...	...
	Value added in mining..do....	7,093	456	169	689	1,193	<u>4,586</u>	(D)	...	...	...	...
	Value of shipments and receipts.....do....	8,607	500	276	924	1,318	<u>5,589</u>	(D)	...	...	...	...
	Capital expenditures...do....	862	300	36	297	107	<u>122</u>	(D)	...	...	...	...
1093	TITANIUM ORES:											
	Number of establishments.....	11	2	...	2	2	1	3	1	...	...	...
	All employees:											
	Number.....	962	<u>31</u>	...	(D)	<u>152</u>	(D)	<u>779</u>	(D)	...	...	...
	Payroll.....\$1,000..	4,496	<u>149</u>	...	(D)	<u>479</u>	(D)	<u>3,868</u>	(D)	...	...	...
	Production and devel- opment workers:											
	Number.....	706	19	...	(D)	<u>104</u>	(D)	<u>583</u>	(D)	...	...	...
	Man-hours.....1,000..	1,234	<u>39</u>	...	(D)	<u>175</u>	(D)	<u>1,020</u>	(D)	...	...	...
	Wages.....\$1,000..	2,882	<u>73</u>	...	(D)	<u>310</u>	(D)	<u>2,499</u>	(D)	...	...	...
	Value added in mining..do....	12,746	<u>200</u>	...	(D)	<u>1,220</u>	(D)	<u>11,326</u>	(D)	...	...	...
	Value of shipments and receipts.....do....	17,158	...	...	<u>2,404</u>	(D)	(D)	<u>14,754</u>	(D)	...	...	...
	Capital expenditures...do....	2,483	<u>118</u>	...	(D)	(D)	...	<u>2,365</u>	(D)	...	...	...

See footnotes at end of table.

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1094	URANIUM-RADIUM-VANADIUM ORES:											
	Number of establishments.....	602	431	71	39	23	19	16	2	1	...	...
	All employees:											
	Number.....	7,939	557	458	546	758	1,360	2,638	<u>1,622</u>	(D)	...	...
	Payroll.....\$1,000..	44,422	2,279	2,194	2,582	4,470	8,213	15,376	<u>9,308</u>	(D)	...	...
	Production and devel- opment workers:											
	Number.....	6,389	517	373	462	652	1,125	2,041	<u>1,219</u>	(D)	...	...
	Man-hours.....1,000..	13,873	929	746	925	1,490	2,423	4,487	<u>2,873</u>	(D)	...	...
	Wages.....\$1,000..	34,439	2,070	1,790	2,250	3,783	6,433	11,163	<u>6,950</u>	(D)	...	...
	Value added in mining..do....	174,802	6,268	4,531	15,179	11,903	26,613	65,815	<u>44,493</u>	(D)	...	...
1099	METALLIC ORES, NEC:											
	Number of establishments.....	66	54	5	5	1	1	...	...	...	...	...
	All employees:											
	Number.....	237	53	36	<u>148</u>	(D)	(D)	...	...	...	...	...
	Payroll.....\$1,000..	1,063	177	77	<u>809</u>	(D)	(D)	...	...	...	...	...
	Production and devel- opment workers:											
	Number.....	187	49	29	<u>109</u>	(D)	(D)	...	...	...	...	...
	Man-hours.....1,000..	343	85	39	<u>219</u>	(D)	(D)	...	...	...	...	...
	Wages.....\$1,000..	852	165	70	<u>617</u>	(D)	(D)	...	...	...	...	...
	Value added in mining..do....	1,847	173	<u>1,674</u>	(D)	(D)	(D)	...	...	...	...	...
11	ANTHRACITE MINING:											
	Number of establishments.....	1,248	833	154	102	86	26	31	10	2	4	...
	All employees:											
	Number.....	<sup>1</sup> 22,813	772	1,017	1,357	2,728	1,807	<sup>3</sup> 5,876	3,261	( <sup>3</sup> )	5,389	...
	Payroll.....\$1,000..	<sup>1</sup> 93,396	2,465	3,448	5,112	11,693	7,942	<sup>3</sup> 24,557	13,522	( <sup>3</sup> )	21,142	...
	Production and devel- opment workers:											
	Number.....	20,047	714	902	1,171	2,442	1,605	<sup>3</sup> 5,310	2,939	( <sup>3</sup> )	4,964	...
	Man-hours.....1,000..	30,867	1,062	1,407	1,881	4,081	2,655	<sup>3</sup> 8,227	4,464	( <sup>3</sup> )	7,090	...
	Wages.....\$1,000..	79,425	2,232	3,062	4,382	10,171	6,691	<sup>3</sup> 21,742	11,941	( <sup>3</sup> )	19,204	...
	Value added in mining..do....	164,489	18,135	8,404	9,138	18,445	13,945	<sup>3</sup> 38,855	24,944	( <sup>3</sup> )	32,623	...
1111	ANTHRACITE:											
	Number of establishments.....	1,163	816	139	91	59	19	25	8	2	4	...
	All employees:											
	Number.....	<sup>1</sup> 19,712	731	919	1,191	1,821	1,335	3,704	<u>4,016</u>	(D)	5,389	...
	Payroll.....\$1,000..	<sup>1</sup> 79,473	2,295	3,006	4,395	7,633	5,700	15,536	<u>16,251</u>	(D)	21,142	...
	Production and devel- opment workers:											
	Number.....	17,266	675	820	1,013	1,622	1,165	3,320	<u>3,687</u>	(D)	4,964	...
	Man-hours.....1,000..	26,409	992	1,262	1,649	2,772	1,974	5,058	<u>5,612</u>	(D)	7,090	...
	Wages.....\$1,000..	67,449	2,074	2,666	3,699	6,630	4,727	13,798	<u>14,651</u>	(D)	19,204	...
	Value added in mining..do....	142,198	17,692	7,260	7,824	12,329	10,494	25,896	<u>28,080</u>	(D)	32,623	...
	Value of shipments and receipts.....do....	290,342	39,856	13,915	15,707	27,325	26,986	58,144	<u>60,461</u>	(D)	47,948	...
	Capital expenditures...do....	12,804	1,288	1,010	1,431	1,334	2,015	1,914	<u>2,908</u>	(D)	904	...

See footnotes at end of table.



Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All estab- lish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1112	ANTHRACITE STRIPPING SERVICES:											
	Number of establishments.....	79	14	15	8	27	7	6	2	...	...	...
	All employees:											
	Number.....	3,054	37	98	123	907	472	<u>1,417</u>	(D)	...	...	...
	Payroll.....\$1,000..	13,717	160	442	521	4,060	2,242	<u>6,292</u>	(D)	...	...	...
	Production and devel- opment workers:											
	Number.....	2,737	36	82	117	820	440	<u>1,242</u>	(D)	...	...	...
	Man-hours.....1,000..	4,395	67	145	172	1,309	681	<u>2,021</u>	(D)	...	...	...
	Wages.....\$1,000..	11,780	150	396	495	3,541	1,964	<u>5,234</u>	(D)	...	...	...
	Value added in mining..do....	22,027	426	1,144	1,067	6,116	3,451	<u>9,823</u>	(D)	...	...	...
	Value of shipments and receipts.....do....	34,463	547	1,511	1,458	9,056	5,981	<u>15,910</u>	(D)	...	...	...
	Capital expenditures...do....	3,685	58	130	65	787	446	<u>2,199</u>	(D)	...	...	...
1113	ANTHRACITE MINING SERVICES, NEC:											
	Number of establishments.....	6	3	...	3	...	...	...	...	...	...	...
	All employees:											
	Number.....	47	4	...	43	...	...	...	...	...	...	...
	Payroll.....\$1,000..	206	10	...	196	...	...	...	...	...	...	...
	Production and develop- ment workers:											
	Number.....	44	3	...	41	...	...	...	...	...	...	...
	Man-hours.....1,000..	63	3	...	60	...	...	...	...	...	...	...
	Wages.....\$1,000..	196	8	...	188	...	...	...	...	...	...	...
	Value added in mining..do....	264	17	...	247	...	...	...	...	...	...	...
	Value of shipments and receipts.....do....	323	18	...	305	...	...	...	...	...	...	...
	Capital expenditures...do....	102	1	...	101	...	...	...	...	...	...	...
12	BITUMINOUS COAL AND LIGNITE MINING:											
	Number of establishments.....	6,930	3,010	1,379	1,170	705	252	246	121	46	1	...
	All employees:											
	Number.....	<sup>1</sup> 187,706	5,876	9,110	<sup>4</sup> 15,889	21,478	<sup>5</sup> 17,718	<sup>6</sup> 39,181	41,585	<u>31,114</u>	(D)	...
	Payroll.....\$1,000..	<sup>1</sup> 912,784	17,042	27,497	<sup>4</sup> 52,006	87,479	<sup>5</sup> 83,986	<sup>6</sup> 212,886	226,167	<u>165,570</u>	(D)	...
	Production and devel- opment workers:											
	Number.....	163,533	5,456	7,851	<sup>4</sup> 14,262	19,380	<sup>5</sup> 15,754	<sup>6</sup> 35,425	37,300	<u>28,105</u>	(D)	...
	Man-hours.....1,000..	267,699	9,421	11,121	<sup>4</sup> 21,791	32,038	<sup>5</sup> 26,542	<sup>6</sup> 59,301	62,545	<u>44,940</u>	(D)	...
	Wages.....\$1,000..	760,364	15,716	24,060	<sup>4</sup> 46,522	77,322	<sup>5</sup> 73,504	<sup>6</sup> 186,722	194,164	<u>142,354</u>	(D)	...
	Value added in mining..do....	1,609,964	37,707	54,387	<sup>4</sup> 99,944	169,658	<sup>5</sup> 154,428	<sup>6</sup> 392,752	407,350	<u>293,738</u>	(D)	...
	Value of shipments and receipts.....do....	2,423,361	69,681	97,312	<sup>4</sup> 177,351	293,074	<sup>5</sup> 252,735	<sup>6</sup> 598,106	552,865	<u>382,237</u>	(D)	...
	Capital expenditures...do....	188,195	10,001	6,350	<sup>4</sup> 15,212	23,855	<sup>5</sup> 30,436	<sup>6</sup> 35,820	50,561	<u>15,960</u>	(D)	...
1211	BITUMINOUS COAL:											
	Number of establishments.....	6,715	2,899	1,338	1,136	679	251	244	121	46	1	...
	All employees:											
	Number.....	<sup>1</sup> 185,676	5,711	8,827	15,304	20,676	17,718	38,986	41,585	<u>31,114</u>	(D)	...
	Payroll.....\$1,000..	<sup>1</sup> 902,759	16,441	26,340	49,043	83,478	83,986	211,583	226,167	<u>165,570</u>	(D)	...
	Production and devel- opment workers:											
	Number.....	161,711	5,302	7,582	13,720	18,690	15,754	35,258	37,300	<u>28,105</u>	(D)	...
	Man-hours.....1,000..	264,308	9,162	10,613	20,668	30,779	26,542	59,059	62,545	<u>44,940</u>	(D)	...
	Wages.....\$1,000..	751,584	15,154	22,953	43,860	73,976	73,504	185,619	194,164	<u>142,354</u>	(D)	...
	Value added in mining..do....	1,585,541	35,211	51,701	94,402	160,945	154,428	387,766	407,350	<u>293,738</u>	(D)	...
	Value of shipments and receipts.....do....	2,390,677	66,277	93,269	169,499	281,479	252,735	592,316	552,865	<u>382,237</u>	(D)	...
	Capital expenditures...do....	183,967	9,487	5,610	14,193	21,987	30,436	35,733	50,561	<u>15,960</u>	(D)	...

See footnotes at end of table.

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1212	LIGNITE:											
	Number of establishments.....	58	40	7	3	7	...	1	...	...	...	...
	All employees:											
	Number.....	510	50	44	40	376	...	(D)	...	...	...	...
	Payroll.....\$1,000..	2,693	147	191	184	<u>2,171</u>	...	(D)	...	...	...	...
	Production and devel- opment workers:											
	Number.....	437	47	39	34	317	...	(D)	...	...	...	...
	Man-hours.....1,000..	844	71	73	67	<u>633</u>	...	(D)	...	...	...	...
	Wages.....\$1,000..	2,261	137	165	155	<u>1,804</u>	...	(D)	...	...	...	...
	Value added in mining..do....	9,309	601	342	403	<u>7,963</u>	...	(D)	...	...	...	...
	Value of shipments and receipts.....do....	11,035	670	450	538	<u>9,377</u>	...	(D)	...	...	...	...
	Capital expenditures...do....	1,432	162	4	213	<u>1,053</u>	...	(D)	...	...	...	...
1213	COAL STRIPPING SERVICES, NEC:											
	Number of establishments.....	137	59	30	29	18	1	...	...	...	...	...
	All employees:											
	Number.....	1,300	105	208	366	621	(D)	...	...	...	...	...
	Payroll.....\$1,000..	6,373	421	861	1,958	<u>3,133</u>	(D)	...	...	...	...	...
	Production and devel- opment workers:											
	Number.....	1,180	97	202	341	540	(D)	...	...	...	...	...
	Man-hours.....1,000..	2,106	168	381	689	<u>868</u>	(D)	...	...	...	...	...
	Wages.....\$1,000..	5,615	392	838	1,740	<u>2,645</u>	(D)	...	...	...	...	...
	Value added in mining..do....	13,409	1,758	2,098	3,817	<u>5,736</u>	(D)	...	...	...	...	...
	Value of shipments and receipts.....do....	19,162	2,505	3,199	5,450	<u>8,008</u>	(D)	...	...	...	...	...
	Capital expenditures...do....	2,600	349	647	702	<u>902</u>	(D)	...	...	...	...	...
1214	COAL MINING SERVICES, NEC:											
	Number of establishments.....	20	12	4	2	1	...	1	...	...	...	...
	All employees:											
	Number.....	220	10	31	179	(D)	...	(D)	...	...	...	...
	Payroll.....\$1,000..	959	33	105	<u>821</u>	(D)	...	(D)	...	...	...	...
	Production and devel- opment workers:											
	Number.....	205	10	28	167	(D)	...	(D)	...	...	...	...
	Man-hours.....1,000..	441	20	54	<u>367</u>	(D)	...	(D)	...	...	...	...
	Wages.....\$1,000..	904	33	104	<u>767</u>	(D)	...	(D)	...	...	...	...
	Value added in mining..do....	1,705	137	246	<u>1,322</u>	(D)	...	(D)	...	...	...	...
	Value of shipments and receipts.....do....	2,487	229	394	<u>1,864</u>	(D)	...	(D)	...	...	...	...
	Capital expenditures...do....	196	3	89	<u>104</u>	(D)	...	(D)	...	...	...	...
13	OIL AND GAS EXTRACTION:											
	Number of establishments.....	18,501	11,053	2,527	2,232	1,752	575	244	59	32	22	5
	All employees:											
	Number.....	<sup>1</sup> 312,800	17,152	16,889	30,479	53,245	38,581	<sup>7</sup> 38,859	<sup>7</sup> 19,997	<sup>8</sup> 30,312	33,050	<sup>8</sup> 9,934
	Payroll.....\$1,000..	<sup>1</sup> 1,699,420	55,955	66,454	130,049	256,128	207,948	<sup>7</sup> 221,694	<sup>7</sup> 121,655	<sup>8</sup> 187,999	206,036	<sup>8</sup> 62,787
	Production and devel- opment workers:											
	Number.....	213,935	15,763	13,626	25,007	43,301	29,802	<sup>7</sup> 27,727	<sup>7</sup> 12,388	<sup>8</sup> 20,747	20,029	<sup>8</sup> 5,545
	Man-hours.....1,000..	440,102	25,136	25,688	48,714	86,799	64,075	<sup>7</sup> 60,259	<sup>7</sup> 26,482	<sup>8</sup> 48,312	44,101	<sup>8</sup> 10,536
	Wages.....\$1,000..	1,010,679	49,224	50,097	98,414	190,658	143,921	<sup>7</sup> 141,711	<sup>7</sup> 69,852	<sup>8</sup> 117,642	115,731	<sup>8</sup> 33,429
	Value added in mining..do....	9,035,289	351,477	317,704	553,972	1,092,811	887,029	<sup>7</sup> 1,339,950	<sup>7</sup> 1,006,969	<sup>8</sup> 1,257,873	1,507,221	<sup>8</sup> 720,283
	Value of shipments and receipts.....do....	11,636,887	552,681	447,687	831,881	1,850,167	1,304,561	<sup>7</sup> 1,707,662	<sup>7</sup> 1,098,127	<sup>8</sup> 1,384,395	1,692,624	<sup>8</sup> 767,102
	Capital expenditures...do....	2,189,735	132,308	76,210	163,878	234,986	238,137	<sup>7</sup> 312,392	<sup>7</sup> 246,628	<sup>8</sup> 237,991	397,391	<sup>8</sup> 149,814

See footnotes at end of table.



Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1311	CRUDE PETROLEUM AND NATURAL GAS:											
	Number of establishments.....	11,993	8,575	1,369	957	638	234	133	45	23	16	3
	All employees:											
	Number.....	<sup>1</sup> 180,040	12,043	9,056	12,946	19,062	16,153	21,462	15,976	15,886	24,479	9,934
	Payroll.....\$1,000..	<sup>1</sup> 1,042,186	37,679	37,365	57,537	97,885	91,753	130,959	96,988	98,421	156,544	62,787
	Production and devel- opment workers:											
	Number.....	102,445	11,007	6,640	9,320	12,927	10,348	12,689	9,305	10,521	14,143	5,545
	Man-hours.....1,000..	200,930	16,320	12,645	18,003	26,052	22,256	26,442	19,033	21,798	27,845	10,536
	Wages.....\$1,000..	497,571	32,509	24,334	35,438	56,936	49,587	68,892	51,915	61,156	83,375	33,429
	Value added in mining...do....	7,339,922	304,465	252,031	351,544	631,159	547,810	1,101,838	950,782	1,050,528	1,429,482	720,283
	Value of shipments and receipts.....do....	8,385,906	470,987	332,680	469,995	780,640	658,579	1,223,908	1,018,668	1,100,567	1,562,780	767,102
	Capital expenditures....do....	1,943,493	115,771	64,161	130,707	177,860	194,886	275,796	230,720	220,663	383,115	149,814
	Crude petroleum subindustry:											
	Number of establish- ments.....	10,603	7,517	1,243	869	580	202	117	36	21	15	3
	All employees:											
	Number.....	<sup>1</sup> 164,723	10,646	8,227	11,767	17,274	14,018	19,151	13,116	<u>38,001</u>	(D)	9,934
	Payroll.....\$1,000..	<sup>1</sup> 965,858	33,899	33,996	51,832	88,661	80,186	119,060	82,104	<u>242,255</u>	(D)	62,787
	Production and devel- opment workers:											
	Number.....	92,358	9,724	6,078	8,594	11,824	8,938	10,924	7,853	<u>22,878</u>	(D)	5,545
	Man-hours.....1,000..	181,246	14,474	11,594	16,552	23,819	19,367	22,875	16,190	<u>45,839</u>	(D)	10,536
	Wages.....\$1,000..	452,947	29,275	22,313	32,209	52,024	43,151	60,225	44,824	<u>135,497</u>	(D)	33,429
	Value added in mining.....do....	6,823,328	265,003	227,741	308,165	564,413	452,602	983,324	873,742	<u>2,428,055</u>	(D)	720,283
	Value of shipments and receipts.....do....	7,809,898	417,723	299,247	419,283	704,434	557,138	1,100,922	938,881	<u>2,605,168</u>	(D)	767,102
	Capital expendi- tures.....do....	1,707,233	94,941	55,278	101,011	154,558	151,651	244,169	196,291	<u>559,520</u>	(D)	149,814
	Natural gas subindustry:											
	Number of establish- ments.....	1,390	1,058	126	88	58	32	16	9	2	1	...
	All employees:											
	Number.....	<sup>1</sup> 15,317	1,397	829	1,179	1,788	2,135	2,311	2,860	<u>2,364</u>	(D)	...
	Payroll.....\$1,000..	<sup>1</sup> 76,328	3,780	3,369	5,705	9,224	11,567	11,899	14,884	<u>12,710</u>	(D)	...
	Production and devel- opment workers:											
	Number.....	10,087	1,283	562	726	1,103	1,410	1,765	1,452	<u>1,786</u>	(D)	...
	Man-hours.....1,000..	19,684	1,846	1,051	1,451	2,233	2,889	3,567	2,843	<u>3,804</u>	(D)	...
	Wages.....\$1,000..	44,624	3,234	2,021	3,229	4,912	6,436	8,667	7,091	<u>9,034</u>	(D)	...
	Value added in mining.....do....	516,594	39,462	24,290	43,379	66,746	95,208	118,514	77,040	<u>51,955</u>	(D)	...
	Value of shipments and receipts.....do....	576,008	53,264	33,433	50,712	76,206	101,441	122,986	79,787	<u>58,179</u>	(D)	...
	Capital expendi- tures.....do....	236,260	20,830	8,883	29,696	23,302	43,235	31,627	34,429	<u>44,258</u>	(D)	...
1321	NATURAL GAS LIQUIDS:											
	Number of establishments.....	593	88	71	144	213	64	13	...	...	...	...
	All employees:											
	Number.....	<sup>1</sup> 16,514	191	494	2,063	6,685	4,036	2,073	...	...	...	...
	Payroll.....\$1,000..	<sup>1</sup> 96,319	1,037	2,668	11,678	38,611	23,805	12,239	...	...	...	...
	Production and devel- opment workers:											
	Number.....	13,445	178	432	1,831	5,889	3,349	1,766	...	...	...	...
	Man-hours.....1,000..	26,947	355	900	3,788	11,757	6,677	3,470	...	...	...	...
	Wages.....\$1,000..	75,739	870	2,266	10,199	33,094	19,159	10,151	...	...	...	...
	Value added in mining...do....	587,580	4,369	10,351	79,411	231,436	159,376	102,637	...	...	...	...
	Value of shipments and receipts.....do....	1,625,098	23,642	37,975	186,255	731,345	370,247	275,634	...	...	...	...
	Capital expenditures....do....	94,930	13,574	7,720	15,635	29,433	12,837	15,731	...	...	...	...

See footnotes at end of table.

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1381	DRILLING OIL AND GAS WELLS SERVICES:											
	Number of establishments.....	3,064	989	579	676	557	192	58	9	3	1	...
	All employees:											
	Number.....	159,411	2,160	3,962	9,264	17,030	12,782	8,345	2,871	2,835	(D)	...
	Payroll.....\$1,000..	1289,243	7,700	14,172	37,491	77,510	68,063	45,952	17,675	19,290	(D)	...
	Production and development workers:											
	Number.....	52,274	2,030	3,662	8,331	15,011	11,237	7,207	2,370	2,426	(D)	...
	Man-hours.....1,000..	109,470	3,712	6,585	15,775	29,607	24,540	16,404	5,763	7,084	(D)	...
	Wages.....\$1,000..	239,328	7,078	12,932	32,551	64,408	55,925	37,103	13,694	15,637	(D)	...
	Value added in mining...do....	587,440	16,982	29,546	77,667	155,050	137,315	85,259	42,565	43,056	(D)	...
	Receipts for services and shipments.....do....	904,939	24,642	42,743	116,180	239,094	218,465	140,152	63,779	59,884	(D)	...
	Capital expenditures.....do....	102,018	1,600	2,803	12,986	21,008	27,235	16,012	13,843	6,531	(D)	...
	Number of establishments, by principal type of service:											
	Drilling oil, gas, dry, or service wells, total....	2,518	782	464	550	475	182	52	9	3	1	...
	With well operations.....	525	87	83	119	154	67	14	1	...	...	...
	Without well operations...	1,993	695	381	431	321	115	38	8	3	1	...
	Drilling in, spudding in, tailing in, and reworking wells, total.....	546	207	115	126	82	10	6	...	...	...	...
	With well operations.....	67	15	17	18	15	2	...	...	...	...	...
	Without well operations...	479	192	98	108	67	8	6	...	...	...	...
1382	OIL AND GAS FIELD EXPLORATION SERVICES:											
	Number of establishments.....	347	157	55	59	37	20	14	2	2	1	...
	All employees:											
	Number.....	19,557	284	384	798	1,218	1,294	3,002	(D)	2,452	(D)	...
	Payroll.....\$1,000..	143,649	1,254	1,659	3,782	5,569	6,275	14,442	(D)	9,892	(D)	...
	Production and development workers:											
	Number.....	7,559	260	334	687	1,078	1,059	2,478	(D)	1,663	(D)	...
	Man-hours.....1,000..	16,695	570	727	1,578	2,587	2,512	5,680	(D)	3,041	(D)	...
	Wages.....\$1,000..	31,115	1,124	1,482	3,101	4,667	4,654	10,712	(D)	5,375	(D)	...
	Value added in mining...do....	64,353	3,243	3,543	6,677	9,106	10,329	20,016	(D)	11,439	(D)	...
	Receipts for services and shipments.....do....	87,215	4,542	4,894	9,583	13,484	14,005	28,347	(D)	12,360	(D)	...
	Capital expenditures.....do....	7,082	124	189	549	877	515	3,200	(D)	1,628	(D)	...
	Number of establishments by principal type of service:											
	Geophysical exploration, total.....	289	120	45	51	36	18	14	2	2	1	...
	With well operations.....	2	1	...	1	...	...	...	...	...	...	...
	Without well operations...	287	119	45	50	36	18	14	2	2	1	...
	Other exploration, total....	58	37	10	8	1	2	...	...	...	...	...
	With well operations.....	1	...	...	1	...	...	...	...	...	...	...
	Without well operations...	57	37	10	7	1	2	...	...	...	...	...

See footnotes at end of table.



Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1389	OIL AND GAS FIELD SERVICES, NEC:											
	Number of establishments.....	2,504	1,244	453	396	307	65	26	3	4	4	2
	All employees:											
	Number.....	47,278	2,474	2,993	5,408	9,250	4,316	3,977	1,150	2,954	14,756	(D)
	Payroll.....\$1,000..	228,023	8,285	10,590	19,561	36,553	18,052	18,102	6,992	17,370	92,518	(D)
	Production and devel- opment workers:											
	Number.....	38,212	2,288	2,558	4,838	8,396	3,809	3,587	713	1,877	10,146	(D)
	Man-hours.....1,000..	86,060	4,179	4,831	9,570	16,796	8,090	8,263	1,686	4,576	28,069	(D)
	Wages.....\$1,000..	166,926	7,643	9,083	17,125	31,553	14,596	14,853	4,243	9,832	57,998	(D)
	Value added in mining..do....	455,994	22,418	22,233	38,673	66,060	32,199	30,200	13,622	32,846	197,743	(D)
	Receipts for services and shipments.....do....	633,729	28,868	29,395	49,868	85,604	43,265	39,621	15,680	50,289	291,139	(D)
	Capital expenditures.....do....	42,212	1,239	1,337	4,001	5,808	2,664	1,653	2,065	4,475	18,970	(D)
	Surveying, log, cement services subindustry:											
	Number of establishments...	199	104	37	25	19	8	2	2	...	...	2
	All employees:											
	Number.....	12,081	220	244	352	629	10,636	(D)	(D)	...	...	(D)
	Payroll.....\$1,000..	74,857	1,041	1,270	1,552	3,185	67,809	(D)	(D)	...	...	(D)
	Production and devel- opment workers:											
	Number.....	8,180	201	201	288	520	6,970	(D)	(D)	...	...	(D)
	Man-hours.....1,000..	20,782	450	483	641	1,231	17,977	(D)	(D)	...	...	(D)
	Wages.....\$1,000..	45,186	948	1,052	1,267	2,510	39,409	(D)	(D)	...	...	(D)
	Value added in mining.....do....	167,391	2,726	2,708	3,270	5,999	152,688	(D)	(D)	...	...	(D)
	Receipts for services and shipments.....do....	220,829	3,383	3,828	4,217	8,061	201,340	(D)	(D)	...	...	(D)
	Capital expendi- tures.....do....	11,714	181	143	169	327	10,894	(D)	(D)	...	...	(D)
	Miscellaneous oil and gas field services subindustry:											
	Number of establishments...	2,305	1,140	416	371	288	57	24	1	4	4	...
	All employees:											
	Number.....	35,197	2,254	2,749	5,056	8,621	13,563	(D)	(D)	2,954	(D)	...
	Payroll.....\$1,000..	153,166	7,244	9,320	18,009	33,368	67,855	(D)	(D)	17,370	(D)	...
	Production and devel- opment workers:											
	Number.....	30,032	2,087	2,357	4,550	7,876	11,285	(D)	(D)	1,877	(D)	...
	Man-hours.....1,000..	65,278	3,729	4,348	8,929	15,565	28,131	(D)	(D)	4,576	(D)	...
	Wages.....\$1,000..	121,740	6,695	8,031	15,858	29,043	52,281	(D)	(D)	9,832	(D)	...
	Value added in mining.....do....	288,603	19,692	19,525	35,403	60,061	121,076	(D)	(D)	32,846	(D)	...
	Receipts for services and shipments.....do....	412,900	25,485	25,567	45,651	77,543	188,365	(D)	(D)	50,289	(D)	...
	Capital expendi- tures.....do....	30,498	1,058	1,194	3,832	5,481	14,458	(D)	(D)	4,475	(D)	...
14	NONMETALLIC MINERALS MINING:											
	Number of establishments.....	7,306	3,210	1,321	1,348	1,039	240	116	24	7	1	...
	All employees:											
	Number.....	<sup>1</sup> 116,812	5,527	9,054	<sup>9</sup> 18,752	31,168	<sup>9</sup> 16,850	<sup>10</sup> 19,604	<sup>10</sup> 7,925	6,303	(D)	...
	Payroll.....\$1,000..	<sup>1</sup> 546,902	20,175	36,671	<sup>9</sup> 79,004	139,843	<sup>9</sup> 77,469	<sup>10</sup> 102,684	<sup>10</sup> 40,230	37,626	(D)	...
	Production and devel- opment workers:											
	Number.....	95,364	5,110	7,616	<sup>9</sup> 15,774	26,121	<sup>9</sup> 14,262	<sup>10</sup> 15,447	<sup>10</sup> 6,293	4,741	(D)	...
	Man-hours.....1,000..	202,446	10,016	15,508	<sup>9</sup> 33,108	57,597	<sup>9</sup> 31,448	<sup>10</sup> 32,429	<sup>10</sup> 12,959	9,381	(D)	...
	Wages.....\$1,000..	409,596	18,289	30,274	<sup>9</sup> 63,415	109,619	<sup>9</sup> 60,370	<sup>10</sup> 71,125	<sup>10</sup> 29,533	26,971	(D)	...
	Value added in mining.....do....	1,384,425	80,929	93,617	<sup>9</sup> 195,762	334,954	<sup>9</sup> 183,209	<sup>10</sup> 244,864	<sup>10</sup> 126,441	124,649	(D)	...
	Value of shipments and receipts.....\$1,000..	1,868,613	86,305	120,174	<sup>9</sup> 261,809	481,614	<sup>9</sup> 247,858	<sup>10</sup> 353,782	<sup>10</sup> 162,779	154,292	(D)	...
	Capital expenditures.....do....	188,998	14,051	16,813	<sup>9</sup> 35,718	49,768	<sup>9</sup> 34,300	<sup>10</sup> 23,719	<sup>10</sup> 7,137	7,492	(D)	...

See footnotes at end of table.

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1411	DIMENSION STONE:											
	Number of establishments.....	335	210	54	45	22	2	2	...	...	...	...
	All employees:											
	Number.....	12,306	333	350	614	632	348	(D)	...	...	...	...
	Payroll.....\$1,000..	17,121	870	923	1,699	2,060	1,251	(D)	...	...	...	...
	Production and devel- opment workers:											
	Number.....	2,055	312	309	532	580	322	(D)	...	...	...	...
	Man-hours.....1,000..	3,690	514	502	954	1,082	638	(D)	...	...	...	...
	Wages.....\$1,000..	6,067	821	837	1,509	1,812	1,088	(D)	...	...	...	...
	Value added in mining.....do....	13,076	2,410	1,852	2,988	3,858	1,968	(D)	...	...	...	...
	Value of shipments and receipts.....do....	15,864	2,585	2,473	3,655	4,598	2,553	(D)	...	...	...	...
	Capital expenditures...do....	1,201	539	224	172	182	84	(D)	...	...	...	...
	Dimension limestone subindustry:											
	Number of establishments...	68	46	7	7	7	...	1	...	...	...	...
	All employees:											
	Number.....	1583	69	49	119	317	...	(D)	...	...	...	...
	Payroll.....\$1,000..	12,120	172	117	338	1,175	...	(D)	...	...	...	...
	Production and de- velopment workers:											
	Number.....	491	65	45	85	296	...	(D)	...	...	...	...
	Man-hours.....1,000..	879	99	68	139	573	...	(D)	...	...	...	...
	Wages.....\$1,000..	1,592	159	113	263	1,057	...	(D)	...	...	...	...
	Value added in mining.....do....	3,741	637	252	472	2,380	...	(D)	...	...	...	...
	Value of shipments and receipts.....do....	4,174	655	264	584	2,671	...	(D)	...	...	...	...
	Capital expendi- tures.....do....	502	217	152	18	115	...	(D)	...	...	...	...
	Dimension granite subindustry:											
	Number of establishments...	76	29	27	11	6	2	1	...	...	...	...
	All employees:											
	Number.....	740	53	164	144	379	(D)	(D)	...	...	...	...
	Payroll.....\$1,000..	2,288	157	450	415	1,266	(D)	(D)	...	...	...	...
	Production and de- velopment workers:											
	Number.....	681	52	145	130	354	(D)	(D)	...	...	...	...
	Man-hours.....1,000..	1,277	90	245	251	691	(D)	(D)	...	...	...	...
	Wages.....\$1,000..	2,046	154	411	379	1,102	(D)	(D)	...	...	...	...
	Value added in mining.....do....	4,085	365	897	802	2,021	(D)	(D)	...	...	...	...
	Value of shipments and receipts.....do....	5,577	459	1,259	1,101	2,758	(D)	(D)	...	...	...	...
	Capital expendi- tures.....do....	217	40	29	62	86	(D)	(D)	...	...	...	...
	Dimension stone, nec subindustry:											
	Number of establishments...	191	135	20	27	9	...	...	...	...	...	...
	All employees:											
	Number.....	983	211	137	351	284	...	...	...	...	...	...
	Payroll.....\$1,000..	2,713	541	356	946	870	...	...	...	...	...	...
	Production and de- velopment workers:											
	Number.....	883	195	119	317	252	...	...	...	...	...	...
	Man-hours.....1,000..	1,534	325	189	564	456	...	...	...	...	...	...
	Wages.....\$1,000..	2,429	508	313	867	741	...	...	...	...	...	...
	Value added in mining.....do....	5,250	1,408	703	1,714	1,425	...	...	...	...	...	...
	Value of shipments and receipts.....do....	6,113	1,471	950	1,970	1,722	...	...	...	...	...	...
	Capital expendi- tures.....do....	482	282	43	92	65	...	...	...	...	...	...

See footnotes at end of table.



Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All estab- lish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1421	CRUSHED AND BROKEN STONE: Number of establishments.....	1,957	496	292	525	490	112	36	5	1	...	...
	All employees:											
	Number.....	<sup>1</sup> 41,404	907	2,055	7,416	14,441	7,856	5,414	<u>2,240</u>	(D)	...	...
	Payroll.....\$1,000..	<sup>1</sup> 188,401	3,101	7,467	29,568	63,592	36,274	28,398	<u>11,481</u>	(D)	...	...
	Production and devel- opment workers:											
	Number.....	34,865	846	1,790	6,408	12,325	6,821	4,827	<u>1,848</u>	(D)	...	...
	Man-hours.....1,000..	75,632	1,517	3,938	13,598	27,554	14,605	10,817	<u>3,603</u>	(D)	...	...
	Wages.....\$1,000..	147,266	2,894	6,516	24,618	51,286	29,722	23,518	<u>8,712</u>	(D)	...	...
	Value added in mining.....do....	445,788	10,348	21,441	73,681	157,472	87,403	73,153	<u>22,290</u>	(D)	...	...
	Value of shipments and receipts.....do....	616,076	14,927	28,632	102,609	225,148	119,280	94,986	<u>30,494</u>	(D)	...	...
	Capital expenditures.....do....	68,720	2,033	4,427	14,118	28,372	9,397	8,940	<u>1,433</u>	(D)	...	...
	Crushed and broken limestone subindustry:											
	Number of establishments...	1,458	334	218	422	373	80	26	4	1	...	...
	All employees:											
	Number.....	<sup>1</sup> 31,408	604	1,552	5,985	11,038	5,676	<u>5,782</u>	(D)	(D)	...	...
	Payroll.....\$1,000..	<sup>1</sup> 143,358	2,017	5,547	23,403	47,765	27,286	<u>30,962</u>	(D)	(D)	...	...
	Production and de- velopment workers:											
	Number.....	26,372	565	1,353	5,178	9,388	4,868	<u>5,020</u>	(D)	(D)	...	...
	Man-hours.....1,000..	57,112	1,026	20,563	11,033	3,129	10,613	<u>10,748</u>	(D)	(D)	...	...
	Wages.....\$1,000..	111,255	1,903	4,853	19,369	38,314	22,036	<u>24,780</u>	(D)	(D)	...	...
	Value added in mining.....do....	334,368	6,744	14,594	57,978	116,980	66,704	<u>71,368</u>	(D)	(D)	...	...
	Value of shipments and receipts.....do....	459,037	9,097	20,329	80,710	166,864	89,701	<u>92,336</u>	(D)	(D)	...	...
	Capital expendi- tures.....do....	54,334	1,466	3,214	11,481	23,199	6,368	<u>8,606</u>	(D)	(D)	...	...
	Crushed and broken granite subindustry:											
	Number of establishments...	121	26	14	20	43	15	3	...	...	...	...
	All employees:											
	Number.....	<sup>1</sup> 3,309	52	99	289	1,306	1,073	420	...	...	...	...
	Payroll.....\$1,000..	<sup>1</sup> 12,975	210	392	1,180	5,095	3,995	1,681	...	...	...	...
	Production and de- velopment workers:											
	Number.....	2,906	48	88	254	1,159	977	380	...	...	...	...
	Man-hours.....1,000..	6,442	90	174	605	2,692	1,909	972	...	...	...	...
	Wages.....\$1,000..	10,771	188	353	1,019	4,343	3,465	1,403	...	...	...	...
	Value added in mining.....do....	33,493	966	927	3,268	15,338	8,787	4,207	...	...	...	...
	Value of shipments and receipts.....do....	49,596	1,605	1,355	4,956	23,177	12,649	5,854	...	...	...	...
	Capital expendi- tures.....do....	4,703	156	250	550	2,139	1,331	277	...	...	...	...
	Crushed and broken stone, nec, subindustry:											
	Number of establishments...	378	136	60	83	74	17	7	1	...	...	...
	All employees:											
	Number.....	<sup>1</sup> 6,687	251	404	1,142	2,097	1,107	<u>1,452</u>	(D)	...	...	...
	Payroll.....\$1,000..	<sup>1</sup> 32,068	874	1,528	4,985	10,732	4,993	<u>7,236</u>	(D)	...	...	...
	Production and de- velopment workers:											
	Number.....	5,587	233	349	976	1,778	976	<u>1,275</u>	(D)	...	...	...
	Man-hours.....1,000..	12,078	401	635	1,960	4,299	2,083	<u>2,700</u>	(D)	...	...	...
	Wages.....\$1,000..	25,240	803	1,310	4,230	8,629	4,221	<u>6,047</u>	(D)	...	...	...
	Value added in mining.....do....	77,927	2,638	5,920	12,435	25,154	11,912	<u>19,868</u>	(D)	...	...	...
	Value of shipments and receipts.....do....	107,443	4,225	6,948	16,943	35,107	16,930	<u>27,290</u>	(D)	...	...	...
	Capital expendi- tures.....do....	9,683	411	963	2,087	3,034	1,698	<u>1,490</u>	(D)	...	...	...

See footnotes at end of table.

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1441	SAND AND GRAVEL:											
	Number of establishments.....	3,703	1,842	776	603	395	61	25	1	...	...	...
	All employees:											
	Number.....	37,048	3,282	5,297	8,304	11,976	4,278	<u>3,911</u>	(D)	...	...	...
	Payroll.....\$1,000..	172,326	12,840	23,338	38,521	57,161	20,326	<u>20,140</u>	(D)	...	...	...
	Production and devel- opment workers:											
	Number.....	30,630	3,055	4,359	6,764	9,816	3,518	<u>3,118</u>	(D)	...	...	...
	Man-hours.....1,000..	66,480	6,438	8,935	14,538	21,827	8,097	<u>6,645</u>	(D)	...	...	...
	Wages.....\$1,000..	134,441	11,771	18,901	29,916	43,943	15,219	<u>14,691</u>	(D)	...	...	...
	Value added in mining..do....	434,468	56,563	57,085	94,473	124,880	48,227	<u>53,240</u>	(D)	...	...	...
	Value of shipments and receipts.....do....	560,806	53,277	73,038	120,988	182,459	62,804	<u>68,240</u>	(D)	...	...	...
	Capital expenditures...do....	56,562	8,951	7,366	14,463	16,227	3,817	<u>5,738</u>	(D)	...	...	...
	Common sand and gravel subindustry:											
	Number of establish- ments.....	3,534	1,765	744	578	369	56	22	...	...	...	...
	All employees:											
	Number.....	34,164	3,138	5,020	7,944	11,092	3,944	3,026	...	...	...	...
	Payroll.....\$1,000..	159,384	12,307	21,800	37,011	53,195	18,997	16,074	...	...	...	...
	Production and devel- opment workers:											
	Number.....	28,268	2,920	4,185	6,484	9,046	3,212	2,421	...	...	...	...
	Man-hours.....1,000..	61,733	6,204	8,581	13,966	20,153	7,488	5,341	...	...	...	...
	Wages.....\$1,000..	124,802	11,288	18,196	28,745	40,658	14,045	11,870	...	...	...	...
	Value added in mining.....do....	401,700	54,663	55,042	89,680	114,635	45,704	41,976	...	...	...	...
	Value of shipments and receipts.....do....	516,090	51,025	70,336	114,825	167,581	58,554	53,769	...	...	...	...
	Capital expendi- tures.....do....	52,818	8,215	7,214	13,990	14,982	3,541	4,876	...	...	...	...
	Glass sand subindustry:											
	Number of establishments...	45	10	5	11	13	3	2	1	...	...	...
	All employees:											
	Number.....	1,628	19	36	173	468	932	(D)	(D)	...	...	...
	Payroll.....\$1,000..	7,497	80	223	777	2,154	<u>4,263</u>	(D)	(D)	...	...	...
	Production and devel- opment workers:											
	Number.....	1,339	17	30	132	406	754	(D)	(D)	...	...	...
	Man-hours.....1,000..	2,833	39	63	268	939	<u>1,524</u>	(D)	(D)	...	...	...
	Wages.....\$1,000..	5,730	71	118	603	1,772	<u>3,166</u>	(D)	(D)	...	...	...
	Value added in mining.....do....	20,672	375	610	2,505	5,979	<u>11,203</u>	(D)	(D)	...	...	...
	Value of shipments and receipts.....do....	28,343	249	845	3,356	8,898	<u>14,995</u>	(D)	(D)	...	...	...
	Capital expendi- tures.....do....	2,703	618	7	343	820	<u>915</u>	(D)	(D)	...	...	...
	Molding sand subindustry:											
	Number of establishments...	124	67	27	14	13	2	1	...	...	...	...
	All employees:											
	Number.....	1,256	125	241	187	416	287	(D)	...	...	...	...
	Payroll.....\$1,000..	5,445	453	1,315	733	1,812	<u>1,132</u>	(D)	...	...	...	...
	Production and devel- opment workers:											
	Number.....	1,023	118	144	148	364	249	(D)	...	...	...	...
	Man-hours.....1,000..	1,914	195	291	304	735	<u>389</u>	(D)	...	...	...	...
	Wages.....\$1,000..	3,909	412	587	568	1,513	<u>829</u>	(D)	...	...	...	...
	Value added in mining.....do....	12,096	1,525	1,433	2,288	4,266	<u>2,584</u>	(D)	...	...	...	...
	Value of shipments and receipts.....do....	16,373	2,003	1,857	2,807	5,980	<u>3,726</u>	(D)	...	...	...	...
	Capital expendi- tures.....do....	1,041	118	145	130	425	<u>223</u>	(D)	...	...	...	...

See footnotes at end of table.



Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1452	BENTONITE:											
	Number of establishments.....	41	14	5	7	12	3	...	...	...	...	...
	All employees:											
	Number.....	688	55	39	99	495	(D)	...	...	...	...	...
	Payroll.....\$1,000..	2,885	342	135	391	<u>2,017</u>	(D)	...	...	...	...	...
	Production and develop- ment workers:											
	Number.....	543	21	36	84	402	(D)	...	...	...	...	...
	Man-hours.....1,000..	1,140	32	74	168	866	(D)	...	...	...	...	...
	Wages.....\$1,000..	1,996	55	117	325	<u>1,499</u>	(D)	...	...	...	...	...
	Value added in mining..do....	12,220	311	391	1,279	<u>10,239</u>	(D)	...	...	...	...	...
1453	FIRE CLAY:											
	Number of establishments.....	182	92	45	26	15	3	1	...	...	...	...
	All employees:											
	Number.....	1,473	169	297	348	378	281	(D)	...	...	...	...
	Payroll.....\$1,000..	6,020	581	1,162	1,360	1,566	<u>1,351</u>	(D)	...	...	...	...
	Production and develop- ment workers:											
	Number.....	1,279	154	255	281	344	245	(D)	...	...	...	...
	Man-hours.....1,000..	2,214	243	431	490	628	<u>422</u>	(D)	...	...	...	...
	Wages.....\$1,000..	4,989	517	964	1,071	1,368	<u>1,069</u>	(D)	...	...	...	...
	Value added in mining..do....	14,540	2,519	3,536	2,790	4,018	<u>1,677</u>	(D)	...	...	...	...
1454	FULLER'S EARTH:											
	Number of establishments.....	14	3	1	4	4	...	1	1	...	...	...
	All employees:											
	Number.....	652	10	(D)	59	583	...	(D)	(D)	...	...	...
	Payroll.....\$1,000..	2,399	<u>242</u>	(D)	(D)	<u>2,157</u>	...	(D)	(D)	...	...	...
	Production and develop- ment workers:											
	Number.....	527	58	(D)	(D)	469	...	(D)	(D)	...	...	...
	Man-hours.....1,000..	1,145	<u>128</u>	(D)	(D)	<u>1,017</u>	...	(D)	(D)	...	...	...
	Wages.....\$1,000..	1,673	<u>176</u>	(D)	(D)	<u>1,497</u>	...	(D)	(D)	...	...	...
	Value added in mining..do....	5,955	<u>950</u>	(D)	(D)	<u>5,005</u>	...	(D)	(D)	...	...	...
1455	KAOLIN AND BALL CLAY:											
	Number of establishments.....	53	10	6	11	12	5	5	4	...	...	...
	All employees:											
	Number.....	3,394	20	48	157	447	458	688	1,576	...	...	...
	Payroll.....\$1,000..	14,014	69	133	551	1,737	2,187	2,388	6,949	...	...	...
	Production and develop- ment workers:											
	Number.....	2,722	18	41	137	349	301	619	1,257	...	...	...
	Man-hours.....1,000..	5,675	31	78	310	728	663	1,242	2,623	...	...	...
	Wages.....\$1,000..	9,719	60	105	441	1,051	1,037	2,000	5,025	...	...	...
	Value added in mining..do....	30,990	822	336	2,113	4,277	3,644	5,005	14,793	...	...	...

See footnotes at end of table.

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1456	FELDSPAR:											
	Number of establishments.....	74	56	4	4	8	1	1	...	...	...	...
	All employees:											
	Number.....	567	82	(D)	57	428	(D)	(D)	...	...	...	...
	Payroll.....\$1,000..	1,919	225	(D)	257	1,437	(D)	(D)	...	...	...	...
	Production and development workers:											
	Number.....	496	80	(D)	43	373	(D)	(D)	...	...	...	...
	Man-hours.....1,000..	1,028	137	(D)	105	786	(D)	(D)	...	...	...	...
	Wages.....\$1,000..	1,515	209	(D)	178	1,128	(D)	(D)	...	...	...	...
	Value added in mining...do....	4,531	400	(D)	495	3,636	(D)	(D)	...	...	...	...
	Value of shipments and receipts.....do....	6,889	576	(D)	669	5,644	(D)	(D)	...	...	...	...
	Capital expenditures.....do....	1,306	45	(D)	816	445	(D)	(D)	...	...	...	...
1457	MAGNESITE AND BRUCITE:											
	Number of establishments.....	4	1	...	...	...	1	2	...	...	...	...
	All employees:											
	Number.....	337	(D)	...	...	...	(D)	(D)	...	...	...	...
	Payroll.....\$1,000..	1,925	(D)	...	...	...	(D)	(D)	...	...	...	...
	Production and development workers:											
	Number.....	267	(D)	...	...	...	(D)	(D)	...	...	...	...
	Man-hours.....1,000..	428	(D)	...	...	...	(D)	(D)	...	...	...	...
	Wages.....\$1,000..	1,386	(D)	...	...	...	(D)	(D)	...	...	...	...
	Value added in mining...do....	5,978	(D)	...	...	...	(D)	(D)	...	...	...	...
	Value of shipments and receipts.....do....	7,270	(D)	...	...	...	(D)	(D)	...	...	...	...
	Capital expenditures.....do....	989	(D)	...	...	...	(D)	(D)	...	...	...	...
1459	CLAY AND RELATED MINERALS, NEC:											
	Number of establishments.....	122	60	14	15	25	8	...	...	...	...	...
	All employees:											
	Number.....	1,662	79	97	206	770	510	...	...	...	...	...
	Payroll.....\$1,000..	6,995	290	361	897	3,320	2,127	...	...	...	...	...
	Production and development workers:											
	Number.....	1,464	73	79	185	674	453	...	...	...	...	...
	Man-hours.....1,000..	3,267	139	144	399	1,535	1,050	...	...	...	...	...
	Wages.....\$1,000..	5,602	274	298	767	2,568	1,695	...	...	...	...	...
	Value added in mining...do....	13,154	883	821	1,730	6,881	2,839	...	...	...	...	...
	Value of shipments and receipts.....do....	22,004	1,406	1,038	3,014	11,156	5,390	...	...	...	...	...
	Capital expenditures.....do....	2,982	395	219	278	1,039	1,051	...	...	...	...	...
1472	BARITE:											
	Number of establishments.....	53	28	7	10	2	4	2	...	...	...	...
	All employees:											
	Number.....	929	54	58	197	(D)	620	(D)	...	...	...	...
	Payroll.....\$1,000..	3,402	174	238	618	(D)	2,372	(D)	...	...	...	...
	Production and development workers:											
	Number.....	781	49	49	173	(D)	510	(D)	...	...	...	...
	Man-hours.....1,000..	1,588	92	97	326	(D)	1,073	(D)	...	...	...	...
	Wages.....\$1,000..	2,698	157	193	502	(D)	1,846	(D)	...	...	...	...
	Value added in mining...do....	11,321	468	629	1,433	(D)	8,791	(D)	...	...	...	...
	Value of shipments and receipts.....do....	13,768	547	751	1,933	(D)	10,537	(D)	...	...	...	...
	Capital expenditures.....do....	973	136	44	345	(D)	448	(D)	...	...	...	...

See footnotes at end of table.



## MINERAL INDUSTRIES—SUMMARY STATISTICS

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1473	FLUORSPAR:											
	Number of establishments.....	55	23	12	9	3	5	2	1	...	...	...
	All employees:											
	Number.....	1,235	29	80	117	69	366	574	(D)	...	...	...
	Payroll.....\$1,000..	5,616	95	304	494	379	1,741	2,603	(D)	...	...	...
	Production and develop- ment workers:											
	Number.....	1,044	25	70	111	50	327	461	(D)	...	...	...
	Man-hours.....1,000..	2,105	33	127	213	101	721	910	(D)	...	...	...
	Wages.....\$1,000..	4,336	76	251	460	228	1,477	1,844	(D)	...	...	...
	Value added in mining..do....	12,653	619	598	1,347	1,994	3,682	4,413	(D)	...	...	...
	Value of shipments and receipts.....do....	19,977	757	670	3,319	3,337	5,587	6,307	(D)	...	...	...
	Capital expenditures..do....	1,566	31	157	125	162	757	334	(D)	...	...	...
1474	POTASH, SODA, BORATE MINERALS:											
	Number of establishments.....	21	3	3	1	2	2	1	4	4	1	...
	All employees:											
	Number.....	16,661	7	19	64	(D)	361	(D)	1,257	4,428	(D)	...
	Payroll.....\$1,000..	141,067	519	(D)	(D)	(D)	2,083	(D)	7,726	26,717	(D)	...
	Production and develop- ment workers:											
	Number.....	4,590	69	(D)	(D)	(D)	265	(D)	944	3,312	(D)	...
	Man-hours.....1,000..	9,212	187	(D)	(D)	(D)	514	(D)	1,881	6,630	(D)	...
	Wages.....\$1,000..	26,746	355	(D)	(D)	(D)	1,371	(D)	5,625	19,395	(D)	...
	Value added in mining..do....	111,082	1,793	(D)	(D)	(D)	6,318	(D)	27,587	75,384	(D)	...
	Value of shipments and receipts.....do....	141,115	2,085	...	(D)	(D)	6,804	(D)	34,777	97,449	(D)	...
	Capital expenditures..do....	11,393	627	(D)	(D)	(D)	2,401	(D)	1,495	6,870	(D)	...
1475	PHOSPHATE ROCK:											
	Number of establishments.....	65	9	10	9	8	12	15	1	1	...	...
	All employees:											
	Number.....	5,393	17	66	118	258	934	4,000	(D)	(D)	...	...
	Payroll.....\$1,000..	27,210	25	252	367	1,310	4,307	20,949	(D)	(D)	...	...
	Production and develop- ment workers:											
	Number.....	3,955	17	57	99	204	823	2,755	(D)	(D)	...	...
	Man-hours.....1,000..	8,255	23	121	208	430	1,746	5,727	(D)	(D)	...	...
	Wages.....\$1,000..	17,185	25	208	316	805	3,619	12,212	(D)	(D)	...	...
	Value added in mining..do....	64,375	138	690	989	4,028	12,087	46,443	(D)	(D)	...	...
	Value of shipments and receipts.....do....	132,094	191	1,000	1,814	6,704	19,592	102,793	(D)	(D)	...	...
	Capital expenditures..do....	5,702	3	71	59	128	1,621	3,820	(D)	(D)	...	...
1476	ROCK SALT:											
	Number of establishments.....	22	9	1	...	2	4	3	3	...	...	...
	All employees:											
	Number.....	1,984	16	(D)	...	399	(D)	1,569	(D)	...	...	...
	Payroll.....\$1,000..	10,996	51	(D)	...	1,969	(D)	8,976	(D)	...	...	...
	Production and develop- ment workers:											
	Number.....	1,602	15	(D)	...	296	(D)	1,291	(D)	...	...	...
	Man-hours.....1,000..	3,508	30	(D)	...	716	(D)	2,762	(D)	...	...	...
	Wages.....\$1,000..	7,937	46	(D)	...	1,244	(D)	6,647	(D)	...	...	...
	Value added in mining..do....	34,073	100	(D)	...	4,319	(D)	29,654	(D)	...	...	...
	Value of shipments and receipts.....do....	41,813	197	(D)	...	5,803	(D)	35,813	(D)	...	...	...
	Capital expenditures..do....	2,607	1	...	...	161	(D)	2,445	(D)	...	...	...

See footnotes at end of table.

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1477	SULFUR:											
	Number of establishments.....	24	8	1	2	...	2	9	1	1	...	...
	All employees:											
	Number.....	3,677	19	(D)	144	...	(D)	3,514	(D)	(D)	...	...
	Payroll.....\$1,000..	24,570	1,086	(D)	(D)	...	(D)	23,484	(D)	(D)	...	...
	Production and develop- ment workers:											
	Number.....	2,303	106	(D)	(D)	...	(D)	2,197	(D)	(D)	...	...
	Man-hours.....1,000..	4,644	223	(D)	(D)	...	(D)	4,421	(D)	(D)	...	...
	Wages.....\$1,000..	13,267	638	(D)	(D)	...	(D)	12,629	(D)	(D)	...	...
	Value added in mining..do....	94,063	1,060	(D)	(D)	...	(D)	93,003	(D)	(D)	...	...
	Value of shipments and receipts.....do....	106,202	542	...	...	...	(D)	105,660	(D)	(D)	...	...
	Capital expenditures..do....	16,282	(D)	(D)	(D)	...	(D)	(D)	(D)	(D)	...	...
1479	CHEMICAL-FERTILIZER MINING, NEC:											
	Number of establishments.....	31	14	4	6	3	2	2	...	...	...	...
	All employees:											
	Number.....	677	25	30	82	125	415	(D)	...	...	...	...
	Payroll.....\$1,000..	3,115	86	100	427	636	1,866	(D)	...	...	...	...
	Production and develop- ment workers:											
	Number.....	557	24	22	62	98	351	(D)	...	...	...	...
	Man-hours.....1,000..	1,093	41	31	114	189	718	(D)	...	...	...	...
	Wages.....\$1,000..	2,358	86	70	310	433	1,459	(D)	...	...	...	...
	Value added in mining..do....	7,586	224	220	2,491	1,601	3,050	(D)	...	...	...	...
	Value of shipments and receipts.....do....	9,643	269	333	2,910	2,096	4,035	(D)	...	...	...	...
	Capital expenditures..do....	607	49	11	160	22	365	(D)	...	...	...	...
1481	NONMETALLIC MINERALS STRIPPING:											
	Number of establishments.....	47	21	16	7	2	...	...	1	...	...	...
	All employees:											
	Number.....	626	40	111	87	388	...	...	(D)	...	...	...
	Payroll.....\$1,000..	1,907	152	382	447	926	...	...	(D)	...	...	...
	Production and develop- ment workers:											
	Number.....	588	36	102	82	368	...	...	(D)	...	...	...
	Man-hours.....1,000..	1,069	68	193	166	642	...	...	(D)	...	...	...
	Wages.....\$1,000..	1,636	136	346	357	797	...	...	(D)	...	...	...
	Value added in mining..do....	3,780	447	882	1,081	1,370	...	...	(D)	...	...	...
	Value of shipments and receipts.....do....	4,787	561	1,259	1,333	1,634	...	...	(D)	...	...	...
	Capital expenditures..do....	591	179	166	176	70	...	...	(D)	...	...	...
1482	NONMETALLIC SERVICES, NEC:											
	Number of establishments.....	28	14	5	6	1	1	1	...	...	...	...
	All employees:											
	Number.....	483	23	37	94	329	(D)	(D)	...	...	...	...
	Payroll.....\$1,000..	1,615	80	148	368	1,019	(D)	(D)	...	...	...	...
	Production and develop- ment workers:											
	Number.....	449	20	34	84	311	(D)	(D)	...	...	...	...
	Man-hours.....1,000..	824	37	67	178	542	(D)	(D)	...	...	...	...
	Wages.....\$1,000..	1,402	56	129	308	909	(D)	(D)	...	...	...	...
	Value added in mining..do....	2,437	216	408	528	1,285	(D)	(D)	...	...	...	...
	Value of shipments and receipts.....do....	3,147	285	532	882	1,448	(D)	(D)	...	...	...	...
	Capital expenditures..do....	257	35	79	64	79	(D)	(D)	...	...	...	...

See footnotes at end of table.



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1492	GYPSUM:											
	Number of establishments.....	32	13	8	7	2	1	1	...	...	...	...
	All employees:											
	Number.....	406	22	49	83	252	(D)	(D)	...	...	...	...
	Payroll.....\$1,000..	1,805	75	192	414	<u>1,124</u>	(D)	(D)	...	...	...	...
	Production and devel- opment workers:											
	Number.....	354	17	42	71	224	(D)	(D)	...	...	...	...
	Man-hours.....1,000..	776	46	73	153	<u>504</u>	(D)	(D)	...	...	...	...
	Wages.....\$1,000..	1,481	69	158	342	<u>912</u>	(D)	(D)	...	...	...	...
	Value added in mining..do....	5,958	271	682	1,279	<u>3,726</u>	(D)	(D)	...	...	...	...
1493	MICA:											
	Number of establishments.....	149	106	17	18	7	1	...	...	...	...	...
	All employees:											
	Number.....	727	115	111	255	246	(D)	...	...	...	...	...
	Payroll.....\$1,000..	2,007	271	229	802	<u>705</u>	(D)	...	...	...	...	...
	Production and devel- opment workers:											
	Number.....	649	113	104	214	218	(D)	...	...	...	...	...
	Man-hours.....1,000..	1,204	197	167	420	<u>420</u>	(D)	...	...	...	...	...
	Wages.....\$1,000..	1,709	267	218	589	<u>635</u>	(D)	...	...	...	...	...
	Value added in mining..do....	4,974	1,198	498	1,912	<u>1,366</u>	(D)	...	...	...	...	...
1494	NATIVE ASPHALT AND BITUMENS:											
	Number of establishments.....	10	1	1	3	2	2	1	...	...	...	...
	All employees:											
	Number.....	464	56	(D)	(D)	408	(D)	(D)	...	...	...	...
	Payroll.....\$1,000..	2,265	<u>199</u>	(D)	(D)	<u>2,066</u>	(D)	(D)	...	...	...	...
	Production and devel- opment workers:											
	Number.....	367	53	(D)	(D)	314	(D)	(D)	...	...	...	...
	Man-hours.....1,000..	732	<u>110</u>	(D)	(D)	<u>622</u>	(D)	(D)	...	...	...	...
	Wages.....\$1,000..	1,398	<u>181</u>	(D)	(D)	<u>1,217</u>	(D)	(D)	...	...	...	...
	Value added in mining..do....	5,954	<u>954</u>	(D)	(D)	<u>5,000</u>	(D)	(D)	...	...	...	...
1495	PUMICE AND PUMICITE:											
	Number of establishments.....	64	44	10	8	2	...	...	...	...	...	...
	All employees:											
	Number.....	316	68	69	179	(D)	...	...	...	...	...	...
	Payroll.....\$1,000..	1,103	255	280	<u>568</u>	(D)	...	...	...	...	...	...
	Production and devel- opment workers:											
	Number.....	271	62	56	153	(D)	...	...	...	...	...	...
	Man-hours.....1,000..	409	108	114	<u>187</u>	(D)	...	...	...	...	...	...
	Wages.....\$1,000..	907	237	234	<u>436</u>	(D)	...	...	...	...	...	...
	Value added in mining..do....	4,058	755	1,186	<u>2,117</u>	(D)	...	...	...	...	...	...

See footnotes at end of table.

Table 3.—Selected Statistics for Mineral Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1496	TALC, SOAPSTONE, PYROPHYLLITE: Number of establishments.....	64	38	6	8	7	2	2	1	...	...	...
	All employees:											
	Number.....	1,294	51	41	102	246	854	(D)	(D)	...	...	...
	Payroll.....\$1,000..	5,320	175	162	399	988	<u>3,596</u>	(D)	(D)	...	...	...
	Production and devel- opment workers:											
	Number.....	1,123	42	38	82	197	764	(D)	(D)	...	...	...
	Man-hours.....1,000..	2,289	69	85	152	399	<u>1,584</u>	(D)	(D)	...	...	...
	Wages.....\$1,000..	4,157	152	146	265	675	<u>2,919</u>	(D)	(D)	...	...	...
	Value added in mining..do....	11,755	563	505	946	1,964	<u>7,777</u>	(D)	(D)	...	...	...
	Value of shipments and receipts.....do....	14,908	910	522	1,215	2,467	<u>9,794</u>	(D)	(D)	...	...	...
	Capital expenditures...do....	898	54	157	109	134	<u>444</u>	(D)	(D)	...	...	...
1497	NATURAL ABRASIVES, EXCEPT SAND: Number of establishments.....	20	11	4	1	3	...	1	...	...	...	...
	All employees:											
	Number.....	229	11	44	(D)	174	...	(D)	...	...	...	...
	Payroll.....\$1,000..	1,007	25	<u>180</u>	(D)	<u>802</u>	...	(D)	...	...	...	...
	Production and devel- opment workers:											
	Number.....	204	11	39	(D)	154	...	(D)	...	...	...	...
	Man-hours.....1,000..	408	15	70	(D)	<u>323</u>	...	(D)	...	...	...	...
	Wages.....\$1,000..	801	25	<u>149</u>	(D)	<u>627</u>	...	(D)	...	...	...	...
	Value added in mining..do....	2,648	54	<u>604</u>	(D)	<u>1,990</u>	...	(D)	...	...	...	...
	Value of shipments and receipts.....do....	3,373	92	<u>710</u>	(D)	<u>2,571</u>	...	(D)	...	...	...	...
	Capital expenditures...do....	149	35	<u>32</u>	(D)	<u>82</u>	...	(D)	...	...	...	...
1498	PEAT: Number of establishments.....	81	58	16	4	2	1	...	...	...	...	...
	All employees:											
	Number.....	389	82	103	49	155	(D)	...	...	...	...	...
	Payroll.....\$1,000..	1,282	210	303	166	<u>603</u>	(D)	...	...	...	...	...
	Production and devel- opment workers:											
	Number.....	335	80	86	40	129	(D)	...	...	...	...	...
	Man-hours.....1,000..	613	130	156	53	<u>274</u>	(D)	...	...	...	...	...
	Wages.....\$1,000..	974	203	253	113	<u>405</u>	(D)	...	...	...	...	...
	Value added in mining..do....	3,640	868	715	314	<u>1,743</u>	(D)	...	...	...	...	...
	Value of shipments and receipts.....do....	4,379	894	759	358	<u>2,368</u>	(D)	...	...	...	...	...
	Capital expenditures...do....	811	247	267	48	<u>249</u>	(D)	...	...	...	...	...
1499	NONMETALLIC MINERALS, NEC: Number of establishments.....	55	26	3	9	8	5	3	1	...	...	...
	All employees:											
	Number.....	1,791	51	19	113	298	369	<u>941</u>	(D)	...	...	...
	Payroll.....\$1,000..	8,610	164	89	443	1,601	1,345	<u>4,968</u>	(D)	...	...	...
	Production and devel- opment workers:											
	Number.....	1,344	44	15	83	222	295	685	(D)	...	...	...
	Man-hours.....1,000..	3,018	74	36	172	553	758	<u>1,425</u>	(D)	...	...	...
	Wages.....\$1,000..	5,950	131	65	313	1,132	920	<u>3,389</u>	(D)	...	...	...
	Value added in mining..do....	23,368	385	130	764	3,412	2,419	<u>16,258</u>	(D)	...	...	...
	Value of shipments and receipts.....do....	31,611	494	162	1,336	5,340	3,390	<u>20,889</u>	(D)	...	...	...
	Capital expenditures...do....	4,188	168	7	2,211	569	888	<u>345</u>	(D)	...	...	...

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Includes figures for some separately reported central offices and related facilities. These were not distributed by employment size. <sup>2</sup>Not shown since the cost of supplies, minerals received for preparation, fuels, purchased electricity, contract work, and purchased machinery installed exceeded the sum of value of shipments and receipts and capital expenditures.

<sup>3</sup>Figures for 2 establishments in Industry 1111—Anthracite with "500-999 employees" are combined with those for establishments with "100-249 employees."

<sup>4</sup>Includes data for 2 establishments in Industry 1214—Coal Mining Services, NEC, one with "20-49 employees" and one with "100-249 employees."

<sup>5</sup>Excludes data for one establishment in Industry 1213—Coal Stripping Services, NEC, with "20-49 employees."

<sup>6</sup>Figures include a net adjustment for 3 smaller establishments to compensate for the inclusions and exclusions described in footnotes 4 and 5.

<sup>7</sup>Figures for "250-499 employees" exclude and those for "100-249 employees" include data for 2 establishments in Industry 1382—Oil and Gas Field Exploration Services.

<sup>8</sup>Figures for "2,500 employees and over" exclude and those for "500-999 employees" include data for 2 establishments in Industry 1389—Oil and Gas Field Services, NEC.

<sup>9</sup>Figures for "50-99 employees" exclude and those for "10-19 employees" include data for one establishment in Industry 1456—Feldspar.

<sup>10</sup>Figures for "250-499 employees" exclude and those for "100-249 employees" include data for one establishment in Industry 1481—Non-metallic Stripping Services.





## TYPE OF ORGANIZATION

3-1



## General Statistics for Mineral Industries Establishments in the United States Classified by Type of Company

	Industry code, major industry group, industry, and item	Type of company organization <sup>1</sup>			
		All establishments, total	Multunit		
			Total	Corporate ownership or control	Noncorporate ownership
	All mineral industries, total:				
	1958				
1	Number of establishments.....	36,218	8,349	6,254	2,095
2	With 20 or more employees.....	6,029	3,193	2,886	307
3	All employees:				
4	Number.....	732,632	502,657	474,797	27,860
5	Payroll.....\$1,000..	3,740,288	2,823,260	2,696,264	126,996
6	Production and development workers:				
7	Number.....	564,281	363,787	340,446	23,341
8	Man-hours.....1,000..	1,077,864	703,170	658,583	44,587
9	Wages.....\$1,000..	2,616,273	1,853,690	1,752,511	101,179
10	Value added in mining.....do....	13,381,494	11,004,238	10,515,707	488,531
11	Cost of supplies, minerals received for preparation, purchased fuels and electricity, and contract work.....do....	6,490,893	5,294,992	5,042,738	252,254
12	Purchased machinery installed.....do....	1,015,257	778,749	722,761	55,988
13	Value of shipments and receipts.....do....	18,089,834	14,714,946	14,039,750	675,196
14	Capital expenditures.....do....	2,797,810	2,363,033	2,241,456	121,577
	1954				
15	Number of establishments.....	37,446	9,190	6,283	2,907
16	Number of employees.....	765,708	530,258	497,028	33,230
17	Value added in mining.....do....	11,546,418	9,115,557	8,672,801	442,756
	10—Metal mining:				
	1958				
18	Number of establishments.....	2,233	492	443	49
19	With 20 or more employees.....	383	293	286	7
20	All employees:				
21	Number.....	92,501	83,583	83,152	431
22	Payroll.....\$1,000..	487,786	446,805	444,783	2,022
23	Production and development workers:				
24	Number.....	71,402	63,781	63,389	392
25	Man-hours.....1,000..	136,750	121,732	120,913	819
26	Wages.....\$1,000..	356,209	322,047	320,176	1,871
27	Value added in mining.....do....	1,187,327	1,070,157	1,064,013	6,144
28	Cost of supplies, minerals received for preparation, purchased fuels and electricity, and contract work.....do....	793,278	721,234	718,971	2,263
29	Purchased machinery installed.....do....	69,531	61,216	61,111	105
30	Value of shipments and receipts.....do....	1,835,845	1,681,097	1,673,085	8,012
31	Capital expenditures.....do....	214,291	171,510	171,010	500
	1954				
32	Number of establishments.....	3,496	926	622	304
33	Number of employees.....	100,250	88,968	88,156	812
34	Value added in mining.....do....	1,075,519	998,938	990,528	8,410
	INDUSTRIES: 1958				
	1011—Iron ores:				
35	Number of establishments.....	242	149	141	8
36	With 20 or more employees.....	129	117	114	3
37	All employees:				
38	Number.....	31,576	30,765	30,680	85
39	Payroll.....\$1,000..	174,387	170,430	169,886	544
40	Value added in mining.....do....	500,232	490,995	488,301	2,694
41	Value of shipments and receipts.....do....	681,938	666,770	663,518	3,252
42	Capital expenditures.....do....	42,749	39,655	39,618	37
	1021—Copper ores:				
43	Number of establishments.....	148	51	50	1
44	With 20 or more employees.....	38	34	33	1
45	All employees:				
46	Number.....	27,642	26,813	(D)	(D)
47	Payroll.....\$1,000..	143,501	139,354	(D)	(D)
48	Value added in mining.....do....	266,485	255,985	(D)	(D)
49	Value of shipments and receipts.....do....	457,644	442,270	(D)	(D)
50	Capital expenditures.....do....	44,874	43,472	(D)	(D)

See footnotes at end of table.

## TYPE OF ORGANIZATION

3-3

## Organization and Ownership, by Major Industry Groups, 1958 and 1954, and by Industries: 1958

Type of company organization <sup>1</sup> —Continued			Type of ownership or control <sup>1</sup>						
Single unit			Corporate	Noncorporate					
Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership <sup>2</sup>	Cooperative	Other <sup>2</sup>	
27,869 2,836	7,335 1,690	20,534 1,146	13,589 4,576	22,629 1,453	12,222 610	9,272 775	97 14	1,038 54	1 2
229,975 917,028	117,747 533,916	112,228 383,112	592,544 3,230,180	140,088 510,108	65,100 221,629	64,307 239,876	990 3,972	9,691 44,631	3 4
200,494 374,694 762,583 2,377,256	99,787 194,887 425,589 1,250,199	100,707 179,807 336,994 1,127,057	440,233 853,470 2,178,100 11,765,906	124,048 224,394 438,173 1,615,588	57,842 103,646 191,531 695,633	57,206 105,835 208,040 730,733	808 1,488 3,030 24,853	8,192 13,425 35,572 164,369	5 6 7 8
1,195,901 236,508 3,374,888 434,777	640,247 133,354 1,794,250 229,550	555,654 103,154 1,580,638 205,227	5,682,985 856,115 15,834,000 2,471,006	807,908 159,142 2,255,834 326,804	348,320 66,264 971,392 138,825	367,224 74,508 1,022,863 149,602	9,914 1,958 28,137 8,588	82,450 16,412 233,442 29,789	9 10 11 12
28,256 255,450 2,430,861	6,219 131,707 1,300,266	22,037 123,743 1,130,595	12,502 628,735 9,973,067	24,944 156,973 1,573,351	12,541 70,899 621,980	12,013 77,599 831,633	117 1,527 54,674	268 6,948 65,064	13 14 15
1,741 90	683 70	1,058 20	1,126 356	1,107 27	580 11	492 16	4 ...	31 ...	16 17
8,918 40,981	6,163 29,476	2,755 11,505	89,315 474,259	3,186 13,527	1,236 4,704	1,901 8,616	(D) (D)	(D) (D)	18 19
7,621 15,018 34,162 117,170	5,132 10,270 24,057 79,704	2,489 4,748 10,105 37,466	68,521 131,183 344,233 1,143,717	2,881 5,567 11,976 43,610	1,160 2,157 4,517 11,059	1,672 3,327 7,254 32,158	(D) (D) (D) (D)	(D) (D) (D) (D)	20 21 22 23
72,044 8,315 154,748 42,781	41,738 5,929 108,965 18,406	30,306 2,386 45,783 24,375	760,709 67,040 1,782,050 189,416	32,569 2,491 53,795 24,875	5,388 1,221 14,662 3,006	26,990 1,241 38,699 21,690	(D) (D) (D) (D)	(D) (D) (D) (D)	24 25 26 27
2,570 11,282 76,581	740 8,470 57,507	1,830 2,812 19,074	1,362 96,626 1,048,035	2,134 3,624 27,484	984 1,416 8,560	1,137 2,150 18,799	3 37 99	10 21 26	28 29 30
93 12	37 11	56 1	178 125	64 4	20 1	44 3	... ...	... ...	31 32
811 3,957 9,237 15,168 3,094	599 3,189 6,892 11,771 2,591	212 768 2,345 3,397 503	31,279 173,075 495,193 675,289 42,209	297 1,312 5,039 6,649 540	86 413 1,360 1,806 176	211 899 3,679 4,843 364	... ... ... ... ...	... ... ... ... ...	33 34 35 36 37
97 4	41 4	56 ...	91 37	57 1	28 ...	28 1	... ...	1 ...	38 39
829 4,147 10,500 15,374 1,402	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	27,422 142,534 264,509 455,008 44,331	220 967 1,976 2,636 543	57 270 543 391 326	(D) (D) (D) (D) (D)	... ... ... ... ...	(D) (D) (D) (D) (D)	40 41 42 43 44



## General Statistics for Mineral Industries Establishments in the United States Classified by Type of Company

	Industry code, major industry group, industry, and item	All establishments, total	Type of company organization <sup>1</sup>		
			Multiunit		
			Total	Corporate ownership or control	Noncorporate ownership
	INDUSTRIES: 1958—Continued				
	1031—Lead and zinc ores:				
1	Number of establishments.....	288	92	82	10
2	With 20 or more employees.....	52	46	45	1
	All employees:				
3	Number.....	11,227	10,464	10,386	78
4	Payroll.....\$1,000..	54,397	51,278	50,909	369
5	Value added in mining.....do...	73,679	67,987	67,461	526
6	Value of shipments and receipts.....do...	120,561	110,699	109,458	1,241
7	Capital expenditures.....do...	8,619	7,385	7,297	88
	Lead ores subindustry:				
8	Number of establishments.....	211	41	34	7
9	With 20 or more employees.....	26	20	20	...
	All employees:				
10	Number.....	6,883	6,229	6,184	45
11	Payroll.....\$1,000..	33,759	31,031	30,853	178
12	Value added in mining.....do...	48,023	43,629	43,398	231
13	Value of shipments and receipts.....do...	75,603	67,296	66,555	741
14	Capital expenditures.....do...	4,496	3,429	3,378	51
	Zinc ores subindustry:				
15	Number of establishments.....	77	51	48	3
16	With 20 or more employees.....	26	26	25	1
	All employees:				
17	Number.....	4,344	4,235	4,202	33
18	Payroll.....\$1,000..	20,638	20,247	20,056	191
19	Value added in mining.....do...	25,656	24,358	24,063	295
20	Value of shipments and receipts.....do...	44,958	43,403	42,903	500
21	Capital expenditures.....do...	4,123	3,956	3,919	37
	1042—Lode gold:				
22	Number of establishments.....	244	10	8	2
23	With 20 or more employees.....	12	3	3	...
	All employees:				
24	Number.....	2,586	1,878	(D)	(D)
25	Payroll.....\$1,000..	12,447	9,608	(D)	(D)
26	Value added in mining.....do...	22,659	16,348	(D)	(D)
27	Value of shipments and receipts.....do...	29,506	21,844	(D)	(D)
28	Capital expenditures.....do...	1,728	361	(D)	(D)
	1043—Placer gold:				
29	Number of establishments.....	74	5	3	2
30	With 20 or more employees.....	3	2	2	...
	All employees:				
31	Number.....	364	222	(D)	(D)
32	Payroll.....\$1,000..	1,790	1,112	(D)	(D)
33	Value added in mining.....do...	4,873	3,342	(D)	(D)
34	Value of shipments and receipts.....do...	6,326	4,698	(D)	(D)
35	Capital expenditures.....do...	340	42	(D)	(D)
	1044—Silver ores:				
36	Number of establishments.....	61	9	7	2
37	With 20 or more employees.....	5	4	4	...
	All employees:				
38	Number.....	989	890	(D)	(D)
39	Payroll.....\$1,000..	5,757	5,266	(D)	(D)
40	Value added in mining.....do...	10,364	9,314	(D)	(D)
41	Value of shipments and receipts.....do...	12,557	11,613	(D)	(D)
42	Capital expenditures.....do...	1,156	643	(D)	(D)
	1051—Bauxite:				
43	Number of establishments.....	29	24	24	...
44	With 20 or more employees.....	9	8	8	...
	All employees:				
45	Number.....	705	(D)	(D)	...
46	Payroll.....\$1,000..	3,606	(D)	(D)	...
47	Value added in mining.....do...	15,430	(D)	(D)	...
48	Value of shipments and receipts.....do...	18,174	(D)	(D)	...
49	Capital expenditures.....do...	1,408	(D)	(D)	...
	1062—Manganese ores:				
50	Number of establishments.....	186	14	11	3
51	With 20 or more employees.....	22	6	6	...
	All employees:				
52	Number.....	2,099	984	969	15
53	Payroll.....\$1,000..	9,036	5,408	5,340	68
54	Value added in mining.....do...	20,014	9,935	9,459	476
55	Value of shipments and receipts.....do...	39,385	24,765	24,269	496
56	Capital expenditures.....do...	2,190	395	382	13

See footnotes at end of table.

## Organization and Ownership, by Major Industry Groups, 1958 and 1954, and by Industries. 1958--Continued

Type of company organization <sup>1</sup> —Continued			Type of ownership or control <sup>1</sup>						
Single unit			Corporate	Noncorporate					
Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership <sup>2</sup>	Cooperative	Other <sup>2</sup>	
196	85	111	167	121	55	60	2	4	1
6	5	1	50	2	...	2	...	...	2
763	526	237	10,912	315	(D)	226	(D)	(D)	3
3,119	2,256	863	53,165	1,232	(D)	882	(D)	(D)	4
5,692	3,453	2,239	70,914	2,765	(D)	2,466	(D)	(D)	5
9,862	6,822	3,040	116,280	4,281	(D)	3,572	(D)	(D)	6
1,234	829	405	8,126	493	(D)	264	(D)	(D)	7
170	76	94	110	101	51	45	2	3	8
6	5	1	25	1	...	1	...	...	9
654	470	184	6,654	229	81	147	(D)	(D)	10
2,728	2,070	658	32,923	836	315	520	(D)	(D)	11
4,394	3,295	1,099	46,693	1,330	271	1,062	(D)	(D)	12
8,307	6,561	1,746	73,116	2,487	687	1,795	(D)	(D)	13
1,067	711	356	4,089	407	200	204	(D)	(D)	14
26	9	17	57	20	4	15	...	1	15
...	...	...	25	1	...	1	...	...	16
109	56	53	4,258	86	(D)	79	...	(D)	17
391	186	205	20,242	396	(D)	362	...	(D)	18
1,298	158	1,140	24,221	1,435	(D)	1,404	...	(D)	19
1,555	261	1,294	43,164	1,794	(D)	1,777	...	(D)	20
167	118	49	4,037	86	(D)	60	...	(D)	21
234	96	138	104	140	87	46	1	6	22
9	9	...	12	...	...	...	...	...	23
708	(D)	(D)	2,449	137	83	48	(D)	(D)	24
2,839	(D)	(D)	12,047	400	236	146	(D)	(D)	25
6,311	(D)	(D)	22,212	447	433	(*)	(D)	(D)	26
7,662	(D)	(D)	28,934	572	342	200	(D)	(D)	27
1,367	(D)	(D)	1,110	618	494	112	(D)	(D)	28
69	16	53	19	55	34	19	...	2	29
1	1	...	3	...	...	...	...	...	30
142	(D)	(D)	337	27	12	(D)	...	(D)	31
678	(D)	(D)	1,722	68	23	(D)	...	(D)	32
1,531	(D)	(D)	4,769	104	68	(D)	...	(D)	33
1,628	(D)	(D)	6,138	188	82	(D)	...	(D)	34
298	(D)	(D)	127	213	60	(D)	...	(D)	35
52	20	32	27	34	16	15	...	3	36
1	1	...	5	...	...	...	...	...	37
99	(D)	(D)	975	14	6	8	...	...	38
491	(D)	(D)	5,702	55	21	34	...	...	39
1,050	(D)	(D)	10,100	264	58	201	...	5	40
944	(D)	(D)	12,221	336	62	268	...	6	41
513	(D)	(D)	1,084	72	47	23	...	2	42
5	2	3	26	3	1	2	...	...	43
1	...	1	8	1	...	1	...	...	44
(D)	(D)	38	667	38	(D)	(D)	...	...	45
(D)	(D)	64	3,542	64	(D)	(D)	...	...	46
(D)	(D)	196	15,234	196	(D)	(D)	...	...	47
(D)	(D)	404	17,770	404	(D)	(D)	...	...	48
(D)	(D)	8	1,400	8	(D)	(D)	...	...	49
172	48	124	59	127	75	49	...	3	50
16	8	8	14	8	5	3	...	...	51
1,115	601	514	1,570	529	273	238	...	18	52
3,628	2,222	1,406	7,562	1,474	691	734	...	49	53
10,079	4,794	5,285	14,253	5,761	2,034	3,639	...	88	54
14,620	8,448	6,172	32,717	6,668	2,603	3,982	...	83	55
1,795	859	936	1,241	949	512	412	...	25	56



## General Statistics for Mineral Industries Establishments in the United States Classified by Type of Company

	Industry code, major industry group, industry, and item	All establishments, total	Type of company organization <sup>1</sup>		
			Multiunit		
			Total	Corporate ownership or control	Noncorporate ownership
INDUSTRIES: 1958—Continued					
1064—Tungsten ores:					
1	Number of establishments.....	32	7	6	1
2	With 20 or more employees.....	4	2	2	..
All employees:					
3	Number.....	638	(D)	511	(D)
4	Payroll.....\$1,000..	2,907	(D)	2,333	(D)
5	Value added in mining.....do....	8,164	(D)	8,264	(D)
6	Value of shipments and receipts.....do....	14,430	(D)	14,376	(D)
7	Capital expenditures.....do....	122	(D)	17	(D)
1069—Ferroalloy ores, nec:					
8	Number of establishments.....	76	12	10	2
9	With 20 or more employees.....	7	6	6	...
All employees:					
10	Number.....	2,701	2,524	(D)	(D)
11	Payroll.....\$1,000..	14,768	13,975	(D)	(D)
12	Value added in mining.....do....	46,077	42,481	(D)	(D)
13	Value of shipments and receipts.....do....	57,706	53,551	(D)	(D)
14	Capital expenditures.....do....	4,233	3,692	(D)	(D)
Chromium ores subindustry:					
15	Number of establishments.....	63	5	3	2
16	With 20 or more employees.....	1	1	1	...
All employees:					
17	Number.....	296	214	(D)	(D)
18	Payroll.....\$1,000..	1,646	1,348	(D)	(D)
19	Value added in mining.....do....	5,759	4,227	(D)	(D)
20	Value of shipments and receipts.....do....	6,001	4,195	(D)	(D)
21	Capital expenditures.....do....	736	429	(D)	(D)
Molybdenum, cobalt, and other ores subindustry:					
22	Number of establishments.....	13	7	7	...
23	With 20 or more employees.....	6	5	5	...
All employees:					
24	Number.....	2,405	2,310	2,310	...
25	Payroll.....\$1,000..	13,122	12,627	12,627	...
26	Value added in mining.....do....	40,318	38,254	38,254	...
27	Value of shipments and receipts.....do....	51,705	49,356	49,356	...
28	Capital expenditures.....do....	3,497	3,263	3,263	...
1081—Metal mining stripping services:					
29	Number of establishments.....	29	3	3	...
30	With 20 or more employees.....	6	2	2	...
All employees:					
31	Number.....	553	136	136	...
32	Payroll.....\$1,000..	2,672	785	785	...
33	Value added in mining services.....do....	8,472	1,977	1,977	...
34	Receipts for services and shipments.....do....	10,270	2,535	2,535	...
35	Capital expenditures.....do....	855	8	8	...
1082—Metal mining services, except stripping:					
36	Number of establishments.....	66	10	9	1
37	With 20 or more employees.....	17	8	8	...
All employees:					
38	Number.....	1,631	(D)	858	(D)
39	Payroll.....\$1,000..	9,425	(D)	5,195	(D)
40	Value added in mining services.....do....	14,390	(D)	7,285	(D)
41	Receipts for services and shipments.....do....	22,114	(D)	11,875	(D)
42	Capital expenditures.....do....	408	(D)	60	(D)
1092—Mercury ores:					
43	Number of establishments.....	79	9	9	...
44	With 20 or more employees.....	9	3	3	...
All employees:					
45	Number.....	652	333	333	...
46	Payroll.....\$1,000..	3,112	1,678	1,678	...
47	Value added in mining.....do....	7,093	3,888	3,888	...
48	Value of shipments and receipts.....do....	8,607	4,794	4,794	...
49	Capital expenditures.....do....	862	202	202	...
1093—Titanium ores:					
50	Number of establishments.....	11	7	7	...
51	With 20 or more employees.....	7	6	6	...
All employees:					
52	Number.....	962	912	912	...
53	Payroll.....\$1,000..	4,496	4,310	4,310	...
54	Value added in mining.....do....	12,746	12,473	12,473	...
55	Value of shipments and receipts.....do....	17,158	16,282	16,282	...
56	Capital expenditures.....do....	2,483	2,483	2,483	...

See footnotes at end of table.

TYPE OF ORGANIZATION

3-7

Organization and Ownership, by Major Industry Groups, 1958 and 1954, and by Industries. 1958--Continued

Type of company organization <sup>1</sup> —Continued			Type of ownership or control <sup>1</sup>						
Single unit			Corporate	Noncorporate					
Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership <sup>2</sup>	Cooperative	Other <sup>2</sup>	
25	16	9	22	10	4	6	...	...	1
2	2	...	4	...	...	...	...	...	2
(D)	(D)	(D)	(D)	(D)	(D)	10	...	...	3
(D)	(D)	(D)	(D)	(D)	(D)	35	...	...	4
(D)	(D)	(D)	(D)	(D)	(D)	3	...	...	5
(D)	(D)	(D)	(D)	(D)	(D)	...	...	...	6
(D)	(D)	(D)	(D)	(D)	(D)	9	...	...	7
64	11	53	21	55	32	23	...	...	8
1	1	...	7	...	...	...	...	...	9
177	122	55	(D)	(D)	(D)	36	...	...	10
793	609	184	(D)	(D)	(D)	117	...	...	11
3,596	2,920	676	(D)	(D)	(D)	464	...	...	12
4,155	3,445	710	(D)	(D)	(D)	477	...	...	13
541	244	297	(D)	(D)	(D)	227	...	...	14
58	7	51	10	53	31	32	...	...	15
...	...	...	1	...	...	...	...	...	16
82	(D)	(D)	242	54	(D)	(D)	...	...	17
298	(D)	(D)	1,465	181	(D)	(D)	...	...	18
1,532	(D)	(D)	5,083	676	(D)	(D)	...	...	19
1,806	(D)	(D)	5,290	711	(D)	(D)	...	...	20
307	(D)	(D)	438	298	(D)	(D)	...	...	21
6	4	2	11	2	1	1	...	...	22
1	1	...	6	...	...	...	...	...	23
95	(D)	(D)	(D)	(D)	(D)	(D)	...	...	24
495	(D)	(D)	(D)	(D)	(D)	(D)	...	...	25
2,064	(D)	(D)	(D)	(D)	(D)	(D)	...	...	26
2,349	(D)	(D)	(D)	(D)	(D)	(D)	...	...	27
234	(D)	(D)	(D)	(D)	(D)	(D)	...	...	28
26	6	20	9	20	13	7	...	...	29
4	1	3	3	3	1	2	...	...	30
417	266	151	402	151	74	77	...	...	31
1,887	1,188	699	1,973	699	313	386	...	...	32
6,495	5,255	1,240	7,232	1,240	536	704	...	...	33
7,735	5,930	1,805	8,465	1,805	860	945	...	...	34
847	779	68	787	68	44	24	...	...	35
56	16	40	25	41	28	13	...	...	36
9	7	2	15	2	1	1	...	...	37
(D)	559	(D)	1,417	214	124	90	...	...	38
(D)	3,276	(D)	8,471	954	538	416	...	...	39
(D)	4,937	(D)	12,222	2,168	1,063	1,105	...	...	40
(D)	7,170	(D)	19,045	3,069	1,563	1,506	...	...	41
(D)	184	(D)	244	164	83	81	...	...	42
70	26	44	35	44	20	24	...	...	43
6	5	1	8	1	1	...	...	...	44
319	263	56	596	56	27	29	...	...	45
1,434	1,164	270	2,842	270	129	141	...	...	46
3,205	1,942	1,263	5,830	1,263	883	380	...	...	47
3,813	2,312	1,501	7,106	1,501	977	524	...	...	48
660	488	172	690	172	68	104	...	...	49
4	4	...	11	...	...	...	...	...	50
1	1	...	7	...	...	...	...	...	51
50	50	...	962	...	...	...	...	...	52
186	186	...	4,496	...	...	...	...	...	53
273	273	...	12,746	...	...	...	...	...	54
876	876	...	17,158	...	...	...	...	...	55
...	...	...	2,483	...	...	...	...	...	56



## General Statistics for Mineral Industries Establishments in the United States Classified by Type of Company

Industry code, major industry group, industry, and item		All establishments, total	Type of company organization <sup>1</sup>		
			Multiunit		
			Total	Corporate ownership or control	Noncorporate ownership
INDUSTRIES: 1958—Continued					
1094—Uranium-radium-vanadium ores:					
1	Number of establishments.....	602	84	68	16
2	With 20 or more employees.....	61	45	43	2
All employees:					
3	Number.....	7,939	5,531	5,395	136
4	Payroll.....\$1,000..	44,422	32,005	31,481	524
5	Value added in mining.....do....	174,802	123,422	122,263	1,159
6	Value of shipments and receipts.....do....	336,451	275,188	273,952	1,236
7	Capital expenditures.....do....	101,565	71,681	71,455	226
1099—Metallic ores, nec:					
8	Number of establishments.....	66	6	5	1
9	With 20 or more employees.....	2	1	1	...
All employees:					
10	Number.....	237	105	(D)	(D)
11	Payroll.....\$1,000..	1,063	595	(D)	(D)
12	Value added in mining.....do....	1,847	1,408	(D)	(D)
13	Value of shipments and receipts.....do....	3,018	2,317	(D)	(D)
14	Capital expenditures.....do....	699	15	(D)	(D)
11—Anthracite mining:					
1958					
15	Number of establishments.....	1,248	126	118	8
16	With 20 or more employees.....	159	57	52	5
All employees:					
17	Number.....	22,813	13,054	12,606	448
18	Payroll.....\$1,000..	93,396	56,108	54,254	1,854
Production and development workers:					
19	Number.....	20,047	11,295	10,865	430
20	Man-hours.....\$1,000..	30,867	17,326	16,628	698
21	Wages.....\$1,000..	79,425	46,247	44,518	1,729
22	Value added in mining.....do....	164,489	98,722	96,314	2,408
23	Cost of supplies, minerals received for preparation, purchased fuels and electricity, and contract work.....do....	167,197	122,341	120,694	1,647
24	Purchased machinery installed.....do....	10,033	4,265	4,047	218
25	Value of shipments and receipts.....do....	325,128	217,056	213,037	4,019
26	Capital expenditures.....do....	16,591	8,272	8,018	254
1954					
27	Number of establishments.....	1,436	198	159	39
28	Number of employees.....	37,462	26,830	25,172	1,658
29	Value added in mining.....do....	196,835	124,110	114,512	9,598
INDUSTRIES: 1958					
1111—Anthracite:					
30	Number of establishments.....	1,163	114	109	5
31	With 20 or more employees.....	117	47	44	3
All employees:					
32	Number.....	19,712	11,986	11,657	329
33	Payroll.....\$1,000..	79,473	50,890	49,578	1,312
34	Value added in mining.....do....	142,198	91,590	90,153	1,437
35	Value of shipments and receipts.....do....	290,342	204,461	202,078	2,383
36	Capital expenditures.....do....	12,804	7,430	7,304	126
1112—Anthracite stripping services:					
37	Number of establishments.....	79	12	9	3
38	With 20 or more employees.....	42	10	8	2
All employees:					
39	Number.....	3,054	1,068	949	119
40	Payroll.....\$1,000..	13,717	5,218	4,676	542
41	Value added in mining services.....do....	22,027	7,132	6,161	971
42	Receipts for services and shipments.....do....	34,463	12,595	10,959	1,636
43	Capital expenditures.....do....	3,685	842	714	128
1113—Anthracite mining services, nec:					
44	Number of establishments.....	6	...	...	...
45	With 20 or more employees.....	...	...	...	...
All employees:					
46	Number.....	47	...	...	...
47	Payroll.....\$1,000..	206	...	...	...
48	Value added in mining services.....do....	264	...	...	...
49	Receipts for services and shipments.....do....	323	...	...	...
50	Capital expenditures.....do....	102	...	...	...

See footnotes at end of table.

## Organization and Ownership, by Major Industry Groups, 1958 and 1954, and by Industries: 1958--Continued

Type of company organization <sup>1</sup> —Continued			Type of ownership or control <sup>1</sup>						
Single unit			Corporate	Noncorporate					
Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership <sup>2</sup>	Cooperative	Other <sup>2</sup>	
518	234	284	302	300	149	142	1	8	1
16	13	3	56	5	2	3	...	...	2
2,408	1,452	956	6,847	1,092	367	713	(D)	(D)	3
12,417	7,236	5,181	38,717	5,705	1,638	3,984	(D)	(D)	4
51,380	31,020	20,360	153,283	21,519	3,425	17,873	(D)	(D)	5
61,263	37,702	23,561	311,654	24,797	4,711	19,791	(D)	(D)	6
29,884	9,596	20,288	81,051	20,514	886	19,566	(D)	(D)	7
60	25	35	30	36	18	14	...	4	8
1	1	...	2	...	...	...	...	...	9
132	(D)	(D)	208	29	8	16	...	5	10
468	(D)	(D)	959	104	21	63	...	20	11
439	(D)	(D)	1,661	186	41	129	...	16	12
701	(D)	(D)	2,852	166	56	96	...	14	13
684	(D)	(D)	487	212	29	175	...	8	14
1,122	181	941	299	949	349	595	2	3	15
102	68	34	120	39	14	25	...	...	16
9,759	6,268	3,491	18,874	3,939	1,479	2,449	(D)	(D)	17
37,288	24,953	12,335	79,207	14,189	5,202	8,943	(D)	(D)	18
8,752	5,545	3,207	16,410	3,637	1,364	2,264	(D)	(D)	19
13,541	8,368	5,173	24,996	5,871	2,214	3,639	(D)	(D)	20
33,178	21,794	11,384	66,312	13,113	4,818	8,267	(D)	(D)	21
65,767	39,323	26,444	135,637	28,852	10,361	18,278	(D)	(D)	22
44,856	26,379	18,477	147,073	20,124	7,989	11,883	(D)	(D)	23
5,768	3,986	1,782	8,033	2,000	592	1,383	(D)	(D)	24
108,072	64,715	43,357	277,752	47,376	17,691	29,216	(D)	(D)	25
8,319	4,973	3,346	12,991	3,600	1,251	2,328	(D)	(D)	26
1,238	172	1,066	331	1,105	246	059	...	...	27
10,632	6,961	3,671	32,133	5,329	2,767	2,562	...	...	28
72,725	43,794	28,931	158,306	38,529	13,876	24,653	...	...	29
1,049	146	903	255	908	326	577	2	3	30
70	43	27	87	30	9	21	...	...	31
7,726	4,659	3,067	16,316	3,396	1,201	2,184	(D)	(D)	32
28,583	18,002	10,581	67,580	11,893	4,129	7,720	(D)	(D)	33
50,608	27,253	23,355	117,406	24,792	8,647	15,932	(D)	(D)	34
85,881	47,081	38,800	249,159	41,183	15,475	25,239	(D)	(D)	35
5,374	2,382	2,992	9,686	3,118	1,065	2,032	(D)	(D)	36
67	35	32	44	35	19	16	...	...	37
32	25	7	33	9	5	4	...	...	38
1,986	1,609	377	2,558	496	(D)	(D)	...	...	39
8,499	6,951	1,548	11,627	2,090	(D)	(D)	...	...	40
14,895	12,070	2,825	18,231	3,796	(D)	(D)	...	...	41
21,868	17,634	4,234	28,593	5,870	(D)	(D)	...	...	42
2,843	2,591	252	3,305	380	(D)	(D)	...	...	43
6	...	6	...	6	4	2	...	...	44
...	...	...	...	...	...	...	...	...	45
47	...	47	...	47	(D)	(D)	...	...	46
206	...	206	...	206	(D)	(D)	...	...	47
264	...	264	...	264	(D)	(D)	...	...	48
323	...	323	...	323	(D)	(D)	...	...	49
102	...	102	...	102	(D)	(D)	...	...	50



## General Statistics for Mineral Industries Establishments in the United States Classified by Type of Company

	Industry code, major industry group, industry, and item	All establishments, total	Type of company organization <sup>1</sup>		
			Multiunit		
			Total	Corporate ownership or control	Noncorporate ownership
	12-Bituminous coal and lignite mining:				
	1958				
1	Number of establishments.....	6,930	1,047	834	213
2	With 20 or more employees.....	1,371	707	637	70
	All employees:				
3	Number.....	187,706	130,322	121,145	9,177
4	Payroll.....\$1,000..	912,784	711,379	668,108	43,271
	Production and development workers:				
5	Number.....	163,533	111,767	103,723	8,044
6	Man-hours.....\$1,000..	267,699	186,632	173,144	13,488
7	Wages.....\$1,000..	760,364	579,487	542,393	37,694
8	Value added in mining.....do....	1,609,964	1,243,385	1,166,066	77,319
9	Cost of supplies, minerals received for preparation, purchased fuels and electricity, and contract work.....do....	849,637	629,950	599,479	30,471
10	Purchased machinery installed.....do....	151,955	125,332	115,126	10,206
11	Value of shipments and receipts.....do....	2,423,361	1,852,744	1,742,498	110,246
12	Capital expenditures.....do....	188,195	145,923	138,173	7,750
	1954				
13	Number of establishments.....	6,855	1,470	1,044	426
14	Number of employees.....	218,833	160,124	149,726	10,398
15	Value added in mining.....do....	1,418,384	1,081,678	1,018,579	63,099
	INDUSTRIES: 1958				
	1211-Bituminous coal				
16	Number of establishments.....	6,715	1,019	811	208
17	With 20 or more employees.....	1,342	694	625	69
	All employees:				
18	Number.....	185,676	129,618	120,523	9,095
19	Payroll.....\$1,000..	902,759	707,521	664,594	42,927
20	Value added in mining.....do....	1,585,541	1,232,109	1,155,888	76,221
21	Value of shipments and receipts.....do....	2,390,677	1,838,850	1,729,946	108,904
22	Capital expenditures.....do....	183,967	144,435	136,760	7,675
	1212-Lignite:				
23	Number of establishments.....	58	12	12	...
24	With 20 or more employees.....	8	7	7	...
	All employees:				
25	Number.....	510	380	380	...
26	Payroll.....\$1,000..	2,693	2,190	2,190	...
27	Value added in mining.....do....	9,309	8,042	8,042	...
28	Value of shipments and receipts.....do....	11,035	9,548	9,548	...
29	Capital expenditures.....do....	1,432	1,242	1,242	...
	1213-Coal stripping services, nec:				
30	Number of establishments.....	137	15	10	5
31	With 20 or more employees.....	19	5	4	1
	All employees:				
32	Number.....	1,300	(D)	(D)	82
33	Payroll.....\$1,000..	6,373	(D)	(D)	344
34	Value added in mining services.....do....	13,409	(D)	(D)	1,098
35	Receipts for services and shipments.....do....	19,162	(D)	(D)	1,342
36	Capital expenditures.....do....	2,600	(D)	(D)	75
	1214-Coal mining services, nec:				
37	Number of establishments.....	20	1	1	...
38	With 20 or more employees.....	2	1	1	...
	All employees:				
39	Number.....	220	(D)	(D)	...
40	Payroll.....\$1,000..	959	(D)	(D)	...
41	Value added in mining services.....do....	1,705	(D)	(D)	...
42	Receipts for services and shipments.....do....	2,487	(D)	(D)	...
43	Capital expenditures.....do....	196	(D)	(D)	...

See footnotes at end of table.

## Organization and Ownership, by Major Industry Groups, 1958 and 1954, and by Industries: 1958--Continued

Type of company organization <sup>1</sup> —Continued			Type of ownership or control <sup>1</sup>							
Single unit			Corporate	Noncorporate					Other <sup>2</sup>	
Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership <sup>2</sup>	Cooperative			
5,883 664	1,219 345	4,664 319	2,053 982	4,877 389	2,740 148	2,071 216	15 7	51 18	1 2	
57,384 201,405	25,104 107,548	32,280 93,857	146,249 775,656	41,457 137,128	17,548 52,094	17,903 56,042	381 1,241	5,625 27,751	3 4	
51,766 81,067 180,877 366,579	22,506 37,286 94,821 187,385	29,260 43,781 86,056 179,194	126,229 210,430 637,214 1,353,451	37,304 57,269 123,150 256,513	15,916 24,864 47,639 94,359	16,183 24,404 51,628 114,856	365 585 1,175 1,566	4,840 7,416 22,708 45,732	5 6 7 8	
219,687 26,623 570,617 42,272	130,152 15,025 310,465 22,097	89,535 11,598 260,152 20,175	729,631 130,151 2,052,963 160,270	120,006 21,804 370,398 27,925	51,898 6,658 141,393 11,522	55,463 8,140 166,543 11,916	420 16 1,934 68	12,225 6,990 60,528 4,419	9 10 11 12	
5,385 58,709 336,706	886 30,812 200,666	4,499 27,897 136,040	1,950 180,538 1,219,245	4,925 38,295 199,139	2,715 16,394 73,760	2,148 15,991 91,404	32 736 2,079	30 5,174 31,896	13 14 15	
5,696 648	1,170 335	4,526 313	1,981 960	4,734 382	2,670 145	1,999 212	14 7	51 18	16 17	
56,058 195,238 353,432 551,827 39,532	24,456 104,314 181,039 301,688 20,342	31,602 90,924 172,393 250,139 19,190	144,979 768,908 1,336,927 2,031,634 157,102	40,697 133,851 248,614 359,043 26,865	17,215 50,640 91,366 136,811 11,228	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	5,625 27,751 45,732 60,528 4,419	18 19 20 21 22	
46 1	5 1	41 ...	17 8	41 ...	26 ...	14 ...	1 ...	...	23 24	
130 503 1,267 1,487 190	67 299 592 724 26	63 204 675 763 164	447 2,489 8,634 10,272 1,268	63 204 675 763 164	35 110 289 372 17	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	...	25 26 27 28 29	
122 14	42 9	80 5	52 13	85 6	34 3	51 3	...	...	30 31	
(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	429 1,949 4,700 7,208 733	789 4,080 7,611 10,612 1,792	511 2,293 5,798 8,550 808	241 1,069 2,106 3,407 203	270 1,224 3,692 5,143 605	...	...	32 33 34 35 36	
19 1	2 ...	17 1	3 1	17 1	10 ...	7 1	...	...	37 38	
(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	186 780 1,426 2,042 88	34 179 279 445 108	186 780 1,426 2,042 88	57 275 598 803 74	129 505 828 1,239 14	...	...	39 40 41 42 43	



## General Statistics for Mineral Industries Establishments in the United States Classified by Type of Company

	Industry code, major industry group, industry, and item	All establishments, total	Type of company organization <sup>1</sup>		
			Multiunit		
			Total	Corporate ownership or control	Noncorporate ownership
	13—Oil and gas extraction:				
	1958				
1	Number of establishments.....	18,501	4,743	3,179	1,564
2	With 20 or more employees.....	2,689	1,341	1,156	185
3	All employees:				
4	Number.....	312,800	206,846	191,953	14,893
5	Payroll.....\$1,000..	1,699,420	1,261,783	1,193,541	68,242
6	Production and development workers:				
7	Number.....	213,935	122,276	110,457	11,819
8	Man-hours.....1,000..	440,102	259,056	234,886	24,170
9	Wages.....\$1,000..	1,010,679	656,271	606,326	49,945
10	Value added in mining.....do...	9,035,289	7,691,682	7,318,746	372,936
11	Cost of supplies, minerals received for preparation, purchased fuels and electricity, and contract work.....do...	4,137,101	3,462,057	3,255,321	206,736
12	Purchased machinery installed.....do...	654,232	512,870	470,413	42,457
13	Value of shipments and receipts.....do...	11,636,887	9,734,196	9,220,969	513,227
14	Capital expenditures.....do...	2,189,735	1,932,413	1,823,511	108,902
	1954				
15	Number of establishments.....	17,585	4,231	2,690	1,541
16	Number of employees.....	315,735	187,064	171,572	15,492
17	Value added in mining.....do...	7,673,694	6,090,276	5,770,160	320,116
	INDUSTRIES: 1958				
	1311—Crude petroleum and natural gas:				
18	Number of establishments.....	11,993	3,505	2,222	1,283
19	With 20 or more employees.....	1,092	754	644	110
20	All employees:				
21	Number.....	180,040	145,313	135,713	9,600
22	Payroll.....\$1,000..	1,042,186	905,822	862,468	43,354
23	Value added in mining.....do...	7,339,922	6,588,624	6,282,930	305,694
24	Value of shipments and receipts.....do...	8,385,906	7,341,180	6,937,800	403,380
25	Capital expenditures.....do...	1,943,493	1,754,424	1,658,808	95,616
	Crude petroleum subindustry:				
26	Number of establishments.....	10,603	3,106	1,915	1,191
27	With 20 or more employees.....	974	657	552	105
28	All employees:				
29	Number.....	216,723	132,940	123,752	9,188
30	Payroll.....\$1,000..	2,965,858	839,702	798,156	41,546
31	Value added in mining.....do...	6,823,328	6,121,808	5,831,971	289,837
32	Value of shipments and receipts.....do...	7,809,898	6,832,085	6,449,404	382,681
33	Capital expenditures.....do...	1,707,233	1,532,081	1,447,726	84,355
	Natural gas subindustry:				
34	Number of establishments.....	1,390	399	307	92
35	With 20 or more employees.....	118	97	92	5
36	All employees:				
37	Number.....	15,317	12,373	11,961	412
38	Payroll.....\$1,000..	76,328	66,120	64,312	1,808
39	Value added in mining.....do...	516,594	466,816	450,959	15,857
40	Value of shipments and receipts.....do...	576,008	509,095	488,396	20,699
41	Capital expenditures.....do...	236,260	222,343	211,082	11,261
	1321—Natural gas liquids:				
42	Number of establishments.....	593	553	516	37
43	With 20 or more employees.....	290	279	270	9
44	All employees:				
45	Number.....	16,514	15,854	15,310	544
46	Payroll.....\$1,000..	96,319	92,839	89,956	2,883
47	Value added in mining.....do...	587,580	573,002	558,051	14,951
48	Value of shipments and receipts.....do...	1,625,098	1,598,144	1,562,035	36,109
49	Capital expenditures.....do...	94,930	92,633	85,871	6,762

See footnotes at end of table.

## Organization and Ownership, by Major Industry Groups, 1958 and 1954, and by Industries: 1958--Continued

Type of company organization <sup>1</sup> —Continued			Type of ownership or control <sup>1</sup>						
Single unit			Corporate	Noncorporate					
Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership <sup>2</sup>	Cooperative	Other <sup>2</sup>	
13,758 1,348	3,190 719	10,568 629	6,369 1,875	12,132 814	6,334 363	4,791 411	70 6	937 34	1 2
105,954 437,637	49,180 233,173	56,774 204,464	241,133 1,426,714	71,667 272,706	34,611 123,817	32,686 130,427	537 2,600	3,833 15,862	3 4
91,659 181,046 354,408 1,343,607	40,950 86,187 178,480 622,276	50,709 94,859 175,928 721,331	151,407 321,073 784,806 7,941,022	62,528 119,029 225,873 1,094,267	30,255 55,263 102,665 490,149	28,742 57,412 109,512 464,902	390 803 1,751 22,931	3,141 5,551 11,945 116,285	5 6 7 8
675,044 141,362 1,902,691 257,322	321,561 71,212 884,875 130,174	353,483 70,150 1,017,816 127,148	3,576,882 541,625 10,105,844 1,953,685	560,219 112,607 1,531,043 236,050	249,046 48,758 682,279 105,674	232,520 52,932 653,247 97,107	9,121 1,884 25,486 8,450	69,532 9,033 170,031 24,819	9 10 11 12
13,354 128,671 1,583,418	2,747 59,305 776,198	10,607 69,366 807,220	5,437 230,877 6,546,358	12,148 84,858 1,127,336	5,791 37,796 448,508	6,086 45,086 596,582	69 612 51,565	202 1,364 30,681	13 14 15
8,488 338	1,746 155	6,742 183	3,968 799	8,025 293	3,789 137	3,277 125	64 5	895 26	16 17
34,727 136,364 751,298 1,044,726 189,069	12,700 59,294 293,568 395,505 87,477	22,027 77,070 457,730 649,221 101,592	148,413 921,762 6,576,498 7,333,305 1,746,285	31,627 120,424 763,424 1,052,601 197,208	15,216 57,642 352,632 492,033 92,012	12,556 46,984 283,351 394,826 77,513	488 2,311 22,458 24,561 8,438	3,367 13,487 104,983 141,181 19,245	18 19 20 21 22
7,497 317	1,476 140	6,021 177	3,391 692	7,212 282	3,589 135	2,756 117	50 5	817 25	23 24
31,783 126,156 701,520 977,813 175,152	11,123 52,757 264,924 358,964 81,063	20,660 73,399 436,596 618,849 94,089	134,875 850,913 6,096,895 6,808,368 1,528,789	29,848 114,945 726,433 1,001,530 178,444	14,674 55,768 341,582 476,900 86,868	11,608 44,302 265,269 370,152 67,270	454 2,286 22,590 24,460 8,356	3,112 12,589 96,992 130,018 15,950	25 26 27 28 29
991 21	270 15	721 6	577 107	813 11	200 2	521 8	14 ...	78 1	30 31
2,944 10,208 49,778 66,913 13,917	1,577 6,537 28,644 36,541 6,414	1,367 3,671 21,134 30,372 7,503	13,538 70,849 479,603 524,937 217,496	1,779 5,479 36,991 51,071 18,764	542 1,874 11,050 15,133 5,144	948 2,682 18,082 24,674 10,243	34 25 ( <sup>3</sup> ) 101 82	255 898 7,991 11,163 3,295	32 33 34 35 36
40 11	32 9	8 2	548 279	45 11	12 3	17 2	2 1	14 5	37 38
660 3,480 14,578 26,954 2,297	560 2,933 11,807 22,197 2,132	100 547 2,771 4,757 165	15,870 92,889 569,858 1,584,232 88,003	644 3,430 17,722 40,866 6,927	127 593 2,263 3,936 965	197 928 5,068 9,256 500	(D) (D) (D) 639 (D)	(D) (D) (D) 27,035 (D)	39 40 41 42 43



## General Statistics for Mineral Industries Establishments in the United States Classified by Type of Company

	Industry code, major industry group, industry, and item	All establishments, total	Type of company organization <sup>1</sup>		
			Multiunit		
			Total	Corporate ownership or control	Noncorporate ownership
INDUSTRIES: 1958—Continued					
1381—Drilling oil and gas wells:					
1	Number of establishments.....	3,064	478	307	171
2	With 20 or more employees.....	820	216	167	49
All employees:					
3	Number.....	59,411	19,421	15,927	3,494
4	Payroll.....\$1,000..	289,243	109,890	92,632	17,258
5	Value added in mining services.....do....	587,440	230,267	186,689	43,578
6	Receipts for services and shipments.....do....	904,939	359,695	297,182	62,513
7	Capital expenditures.....do....	102,018	53,175	47,650	5,525
1382—Oil and gas exploration services:					
8	Number of establishments.....	347	52	36	16
9	With 20 or more employees.....	76	23	19	4
All employees:					
10	Number.....	9,557	3,684	3,424	260
11	Payroll.....\$1,000..	43,649	17,902	16,599	1,303
12	Value added in mining services.....do....	64,353	21,239	18,746	2,493
13	Receipts for services and shipments.....do....	87,215	30,480	27,055	3,425
14	Capital expenditures.....do....	7,082	3,736	3,274	462
1389—Oil and gas field services, nec:					
15	Number of establishments.....	2,504	155	98	57
16	With 20 or more employees.....	411	69	56	13
All employees:					
17	Number.....	47,278	22,574	21,579	995
18	Payroll.....\$1,000..	228,023	135,330	131,886	3,444
19	Value added in mining services.....do....	455,994	278,550	272,330	6,220
20	Receipts for services and shipments.....do....	633,729	404,697	396,897	7,800
21	Capital expenditures.....do....	42,212	28,445	27,908	537
14—Nonmetallic minerals mining:					
1958					
22	Number of establishments.....	7,306	1,941	1,680	261
23	With 20 or more employees.....	1,427	795	755	40
All employees:					
24	Number.....	116,812	68,852	65,941	2,911
25	Payroll.....\$1,000..	546,902	347,185	335,578	11,607
Production and development workers:					
26	Number.....	95,364	54,668	52,012	2,656
27	Man-hours.....\$1,000..	202,446	118,424	113,012	5,412
28	Wages.....\$1,000..	409,596	249,638	239,098	10,540
29	Value added in mining.....do....	1,384,425	900,292	870,568	29,724
30	Cost of supplies, minerals received for preparation, purchased fuels and electricity, and contract work.....do....	543,680	359,410	348,273	11,137
31	Purchased machinery installed.....do....	129,506	75,066	72,064	3,002
32	Value of shipments and receipts.....do....	1,868,613	1,229,853	1,190,161	39,692
33	Capital expenditures.....do....	188,998	104,915	100,744	4,171
1954					
34	Number of establishments.....	8,074	2,365	1,768	597
35	Number of employees.....	113,428	67,272	62,402	4,870
36	Value added in mining.....do....	1,181,986	820,555	779,022	41,533
INDUSTRIES: 1958					
1411—Dimension stone:					
37	Number of establishments.....	335	66	62	4
38	With 20 or more employees.....	26	17	16	1
All employees:					
39	Number.....	2,306	1,074	1,037	37
40	Payroll.....\$1,000..	7,121	3,775	3,691	84
41	Value added in mining.....do....	13,076	6,097	5,909	188
42	Value of shipments and receipts.....do....	15,864	7,826	7,598	228
43	Capital expenditures.....do....	1,201	203	183	20
Dimension limestone subindustry:					
44	Number of establishments.....	68	7	7	...
45	With 20 or more employees.....	8	4	4	...
All employees:					
46	Number.....	583	285	285	...
47	Payroll.....\$1,000..	2,120	1,250	1,250	...
48	Value added in mining.....do....	3,741	1,868	1,868	...
49	Value of shipments and receipts.....do....	4,174	2,104	2,104	...
50	Capital expenditures.....do....	502	50	50	...

See footnotes at end of table.

## Organization and Ownership, by Major Industry Groups, 1958 and 1954, and by Industries: 1958--Continued

Type of company organization <sup>1</sup> —Continued			Type of ownership or control <sup>1</sup>						
Single unit			Corporate	Noncorporate					
Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership <sup>2</sup>	Cooperative	Other <sup>2</sup>	
2,586	778	1,808	1,085	1,979	1,072	886	2	19	
604	354	250	521	299	107	189	...	3	
39,990	21,285	18,705	37,212	22,199	9,095	12,953	(D)	(D)	
179,353	107,351	72,002	199,983	89,260	32,830	55,857	(D)	(D)	
357,173	205,194	151,979	391,883	195,557	69,192	125,334	(D)	(D)	
545,244	321,119	224,125	618,301	286,638	102,101	182,857	(D)	(D)	
48,843	31,264	17,579	78,914	23,104	7,886	15,108	(D)	(D)	
295	118	177	154	193	114	79	...	...	
53	36	17	55	21	9	12	...	...	
5,873	4,265	1,608	7,689	1,868	822	1,046	...	...	
25,747	18,442	7,305	35,041	8,608	3,449	5,159	...	...	
43,114	29,922	13,192	48,668	15,685	6,731	8,954	...	...	
56,735	38,691	18,044	65,746	21,469	8,924	12,545	...	...	
3,346	2,421	925	5,695	1,387	390	997	...	...	
2,349	516	1,833	614	1,890	1,347	532	2	9	
342	165	177	221	190	107	83	...	...	
24,704	10,370	14,334	31,949	15,329	9,351	5,934	(D)	(D)	
92,693	45,153	47,540	177,039	50,984	29,303	21,499	(D)	(D)	
177,444	81,785	95,659	354,115	101,879	59,331	42,195	(D)	(D)	
229,032	107,363	121,669	504,260	129,469	75,285	53,763	(D)	(D)	
13,767	6,880	6,887	34,788	7,424	4,421	2,989	(D)	(D)	
5,365	2,062	3,303	3,742	3,564	2,219	1,323	6	16	
632	488	144	1,243	184	74	107	1	2	
47,960	31,032	16,928	96,973	19,839	10,226	9,368	71	174	
199,717	138,766	60,951	474,344	72,558	35,812	35,848	130	768	
40,696	25,654	15,042	77,666	17,698	9,147	8,345	52	154	
84,022	52,776	31,246	165,788	36,658	19,148	17,053	99	358	
159,958	106,437	53,521	345,535	64,061	31,892	31,379	103	687	
484,133	321,511	162,622	1,192,079	192,346	89,705	100,539	211	1,891	
184,270	120,417	63,853	468,690	74,990	33,999	40,368	82	541	
54,440	37,202	17,238	109,266	20,240	9,035	10,812	20	373	
638,760	425,230	213,530	1,615,391	253,222	115,367	135,158	285	2,412	
84,083	53,900	30,183	154,644	34,354	17,372	16,561	28	393	
5,709	1,674	4,035	3,442	4,632	2,805	1,788	13	26	
46,156	26,159	19,997	88,561	24,867	12,526	11,810	142	389	
361,431	222,101	139,330	1,001,123	180,863	77,276	100,195	931	2,461	
269	72	197	134	201	150	50	...	1	
9	8	1	24	2	2	...	...	...	
1,232	590	642	1,627	679	499	(D)	...	(D)	
3,346	1,703	1,643	5,394	1,727	1,235	(D)	...	(D)	
6,979	3,114	3,865	9,023	4,053	2,803	(D)	...	(D)	
8,038	3,552	4,486	11,150	4,714	3,344	(D)	...	(D)	
998	504	494	687	514	288	(D)	...	(D)	
61	16	45	23	45	34	11	...	...	
4	4	...	8	...	...	...	...	...	
298	156	142	441	142	116	26	...	...	
870	452	418	1,702	418	317	101	...	...	
1,873	997	876	2,865	876	577	299	...	...	
2,070	993	1,077	3,097	1,077	754	323	...	...	
452	300	152	350	152	20	132	...	...	



## General Statistics for Mineral Industries Establishments in the United States Classified by Type of Company

	Industry code, major industry group, industry, and item	All establishments, total	Type of company organization <sup>1</sup>		
			Multunit		
			Total	Corporate ownership or control	Noncorporate ownership
	INDUSTRIES: 1958—Continued				
	1411—Dimension stone—Continued				
	Dimension granite subindustry:				
1	Number of establishments.....	76	27	26	1
2	With 20 or more employees.....	9	9	8	1
	All employees:				
3	Number.....	740	500	(D)	(D)
4	Payroll.....\$1,000..	2,288	1,603	(D)	(D)
5	Value added in mining.....do..	4,085	2,767	(D)	(D)
6	Value of shipments and receipts.....do..	5,577	3,924	(D)	(D)
7	Capital expenditures.....do..	217	109	(D)	(D)
	Dimension stone, nec, subindustry:				
8	Number of establishments.....	191	32	29	3
9	With 20 or more employees.....	9	4	4	...
	All employees:				
10	Number.....	983	289	(D)	(D)
11	Payroll.....\$1,000..	2,713	922	(D)	(D)
12	Value added in mining.....do..	5,250	1,462	(D)	(D)
13	Value of shipments and receipts.....do..	6,113	1,798	(D)	(D)
14	Capital expenditures.....do..	482	44	(D)	(D)
	1421—Crushed and broken stone:				
15	Number of establishments.....	1,957	726	610	116
16	With 20 or more employees.....	644	356	339	17
	All employees:				
17	Number.....	41,404	24,490	23,296	1,194
18	Payroll.....\$1,000..	188,401	118,745	114,069	4,676
19	Value added in mining.....do..	445,788	283,385	271,106	12,279
20	Value of shipments and receipts.....do..	616,076	391,378	373,077	18,301
21	Capital expenditures.....do..	68,720	35,045	33,177	1,868
	Crushed and broken limestone subindustry:				
22	Number of establishments.....	1,458	535	454	81
23	With 20 or more employees.....	484	263	252	11
	All employees:				
24	Number.....	31,408	18,431	17,592	839
25	Payroll.....\$1,000..	143,358	90,830	87,722	3,108
26	Value added in mining.....do..	334,368	211,833	203,259	8,574
27	Value of shipments and receipts.....do..	459,037	289,690	277,006	12,684
28	Capital expenditures.....do..	54,334	26,448	24,985	1,463
	Crushed and broken granite subindustry:				
29	Number of establishments.....	121	59	52	7
30	With 20 or more employees.....	61	41	38	3
	All employees:				
31	Number.....	3,309	2,111	1,979	132
32	Payroll.....\$1,000..	12,975	8,264	7,549	715
33	Value added in mining.....do..	33,493	22,372	20,480	1,892
34	Value of shipments and receipts.....do..	49,596	34,281	31,486	2,795
35	Capital expenditures.....do..	4,703	2,980	2,818	162
	Crushed and broken stone, nec, subindustry:				
36	Number of establishments.....	378	132	104	28
37	With 20 or more employees.....	99	52	49	3
	All employees:				
38	Number.....	6,687	3,948	3,725	223
39	Payroll.....\$1,000..	32,068	19,651	18,798	853
40	Value added in mining.....do..	77,927	49,180	47,367	1,813
41	Value of shipments and receipts.....do..	107,443	67,407	64,585	2,822
42	Capital expenditures.....do..	9,683	5,617	5,374	243
	1441—Sand and gravel:				
43	Number of establishments.....	3,703	704	607	97
44	With 20 or more employees.....	482	224	210	14
	All employees:				
45	Number.....	37,048	14,950	13,892	1,058
46	Payroll.....\$1,000..	172,326	74,929	70,178	4,751
47	Value added in mining.....do..	434,468	188,535	175,850	12,685
48	Value of shipments and receipts.....do..	560,806	247,429	231,848	15,581
49	Capital expenditures.....do..	56,562	20,236	18,303	1,933
	Common sand and gravel subindustry:				
50	Number of establishments.....	3,534	639	547	92
51	With 20 or more employees.....	447	201	188	13
	All employees:				
52	Number.....	34,164	13,008	12,003	1,005
53	Payroll.....\$1,000..	159,384	65,947	61,406	4,541
54	Value added in mining.....do..	401,700	165,111	153,385	11,726
55	Value of shipments and receipts.....do..	516,090	215,130	200,643	14,487
56	Capital expenditures.....do..	52,818	18,001	16,124	1,877

See footnotes at end of table.

## Organization and Ownership, by Major Industry Groups, 1958 and 1954, and by Industries. 1958--Continued

Type of company organization <sup>1</sup> —Continued				Type of ownership or control <sup>1</sup>						
Single unit			Corporate	Noncorporate						
Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership <sup>2</sup>	Cooperative	Other <sup>2</sup>		
49	16	33	42	34	25	9	...	...	1	
...	...	...	8	1	1	...	...	...	2	
240	(D)	(D)	580	160	(D)	(D)	...	...	3	
685	(D)	(D)	1,862	426	(D)	(D)	...	...	4	
1,318	(D)	(D)	3,203	882	(D)	(D)	...	...	5	
1,653	(D)	(D)	4,467	1,110	(D)	(D)	...	...	6	
108	(D)	(D)	161	56	(D)	(D)	...	...	7	
159	40	119	69	122	91	30	...	1	8	
5	4	1	8	1	1	...	...	...	9	
694	(D)	(D)	606	377	(D)	(D)	...	(D)	10	
1,791	(D)	(D)	1,830	883	(D)	(D)	...	(D)	11	
3,788	(D)	(D)	2,955	2,295	(D)	(D)	...	(D)	12	
4,315	(D)	(D)	3,586	2,527	(D)	(D)	...	(D)	13	
438	(D)	(D)	176	306	(D)	(D)	...	(D)	14	
1,231	596	635	1,206	751	396	349	6	...	15	
288	225	63	564	80	33	46	1	...	16	
16,914	11,703	5,211	34,999	6,405	2,968	3,366	71	...	17	
69,656	51,315	18,341	165,384	23,017	10,277	12,610	130	...	18	
162,403	116,307	46,096	387,413	58,375	24,249	33,915	211	...	19	
224,698	158,721	65,977	531,798	84,278	33,819	50,174	285	...	20	
33,675	23,234	10,441	56,411	12,309	5,299	6,982	28	...	21	
923	433	490	887	571	292	274	5	...	22	
221	167	54	419	65	27	37	1	...	23	
12,977	8,678	4,299	26,270	5,138	2,314	(D)	(D)	...	24	
52,528	37,578	14,950	125,300	18,058	7,988	(D)	(D)	...	25	
122,535	84,024	38,511	287,283	47,085	19,181	(D)	(D)	...	26	
169,347	114,523	54,824	391,529	67,508	26,452	(D)	(D)	...	27	
27,886	19,009	8,877	43,994	10,340	4,394	(D)	(D)	...	28	
62	41	21	93	28	14	14	...	...	29	
20	19	1	57	4	...	4	...	...	30	
1,198	1,087	111	3,066	243	(D)	(D)	...	...	31	
4,711	4,309	402	11,858	1,117	(D)	(D)	...	...	32	
11,121	10,214	907	30,694	2,799	(D)	(D)	...	...	33	
15,315	13,918	1,397	45,404	4,192	(D)	(D)	...	...	34	
1,723	1,509	214	4,327	376	(D)	(D)	...	...	35	
246	122	124	226	152	90	61	1	...	36	
47	39	8	88	11	6	5	...	...	37	
2,739	1,938	801	5,663	1,024	(D)	(D)	(D)	...	38	
12,417	9,428	2,989	28,226	3,842	(D)	(D)	(D)	...	39	
28,747	22,069	6,678	69,436	8,491	(D)	(D)	(D)	...	40	
40,036	30,280	9,756	94,865	12,578	(D)	(D)	(D)	...	41	
4,066	2,716	1,350	8,090	1,593	(D)	(D)	(D)	...	42	
2,999	1,081	1,918	1,688	2,015	1,298	708	...	9	43	
258	194	64	404	78	32	45	...	1	44	
22,098	13,571	8,527	27,463	9,585	5,022	4,496	...	67	45	
97,397	64,293	33,104	134,471	37,855	19,042	18,437	...	376	46	
245,933	154,735	91,198	330,585	103,883	50,992	51,541	...	1,350	47	
313,377	197,907	115,470	429,755	131,051	63,236	66,212	...	1,603	48	
36,326	20,995	15,331	39,298	17,264	9,493	7,391	...	380	49	
2,895	1,039	1,856	1,586	1,948	1,254	686	...	8	50	
246	183	63	371	76	31	44	...	1	51	
21,156	12,837	8,319	24,840	9,324	4,857	(D)	...	(D)	52	
93,437	61,224	32,213	122,630	36,754	18,403	(D)	...	(D)	53	
236,589	148,201	88,388	301,586	100,114	48,832	(D)	...	(D)	54	
300,960	189,042	111,918	389,685	126,405	60,427	(D)	...	(D)	55	
34,817	20,332	14,485	36,456	16,362	9,260	(D)	...	(D)	56	



## MINERAL INDUSTRIES—SUMMARY STATISTICS

## General Statistics for Mineral Industries Establishments in the United States Classified by Type of Company

	Industry code, major industry group, industry, and item	All establishments, total	Type of company organization <sup>1</sup>		
			Multiunit		
			Total	Corporate ownership or control	Noncorporate ownership
	INDUSTRIES: 1958—Continued				
	1441—Sand and gravel—Continued				
	Glass and subindustry:				
1	Number of establishments.....	45	19	18	1
2	With 20 or more employees.....	19	12	12	...
	All employees:				
3	Number.....	1,628	1,195	(D)	(D)
4	Payroll.....\$1,000..	7,497	5,719	(D)	(D)
5	Value added in mining.....do..	20,672	16,800	(D)	(D)
6	Value of shipments and receipts.....do..	28,343	23,363	(D)	(D)
7	Capital expenditures.....do..	2,703	1,622	(D)	(D)
	Molding sand subindustry:				
8	Number of establishments.....	124	46	42	4
9	With 20 or more employees.....	16	11	10	1
	All employees:				
10	Number.....	1,256	747	(D)	(D)
11	Payroll.....\$1,000..	5,445	3,263	(D)	(D)
12	Value added in mining.....do..	12,096	6,624	(D)	(D)
13	Value of shipments and receipts.....do..	16,373	8,936	(D)	(D)
14	Capital expenditures.....do..	1,041	613	(D)	(D)
	1452—Bentonite:				
15	Number of establishments.....	41	23	22	1
16	With 20 or more employees.....	15	12	12	...
	All employees:				
17	Number.....	688	539	(D)	(D)
18	Payroll.....\$1,000..	2,885	2,296	(D)	(D)
19	Value added in mining.....do..	12,220	10,773	(D)	(D)
20	Value of shipments and receipts.....do..	16,843	14,769	(D)	(D)
21	Capital expenditures.....do..	1,083	986	(D)	(D)
	1453—Fire clay:				
22	Number of establishments.....	182	77	67	10
23	With 20 or more employees.....	19	11	11	...
	All employees:				
24	Number.....	1,473	865	820	45
25	Payroll.....\$1,000..	6,020	3,726	3,536	190
26	Value added in mining.....do..	14,540	8,919	8,438	481
27	Value of shipments and receipts.....do..	18,606	11,576	10,947	629
28	Capital expenditures.....do..	2,107	1,160	1,090	70
	1454—Fuller's earth:				
29	Number of establishments.....	14	5	5	...
30	With 20 or more employees.....	6	3	3	...
	All employees:				
31	Number.....	652	359	359	...
32	Payroll.....\$1,000..	2,399	1,444	1,444	...
33	Value added in mining.....do..	5,955	3,701	3,701	...
34	Value of shipments and receipts.....do..	8,692	5,665	5,665	...
35	Capital expenditures.....do..	579	335	335	...
	1455—Kaolin and ball clay:				
36	Number of establishments.....	53	32	29	3
37	With 20 or more employees.....	26	15	14	1
	All employees:				
38	Number.....	3,394	2,309	2,273	36
39	Payroll.....\$1,000..	14,014	10,111	9,985	126
40	Value added in mining.....do..	30,990	21,513	21,041	472
41	Value of shipments and receipts.....do..	42,434	30,219	29,478	741
42	Capital expenditures.....do..	4,151	2,370	2,327	43
	1456—Feldspar:				
43	Number of establishments.....	74	15	15	...
44	With 20 or more employees.....	10	8	8	...
	All employees:				
45	Number.....	567	398	398	...
46	Payroll.....\$1,000..	1,919	1,260	1,260	...
47	Value added in mining.....do..	4,531	3,049	3,049	...
48	Value of shipments and receipts.....do..	6,889	5,032	5,032	...
49	Capital expenditures.....do..	1,306	370	370	...
	1457—Magnesite and brucite:				
50	Number of establishments.....	4	2	2	...
51	With 20 or more employees.....	3	2	2	...
	All employees:				
52	Number.....	337	(D)	(D)	...
53	Payroll.....\$1,000..	1,925	(D)	(D)	...
54	Value added in mining.....do..	5,978	(D)	(D)	...
55	Value of shipments and receipts.....do..	7,270	(D)	(D)	...
56	Capital expenditures.....do..	989	(D)	(D)	...

See footnotes at end of table.

## Organization and Ownership, by Major Industry Groups, 1958 and 1954, and by Industries. 1958--Continued

Type of company organization <sup>1</sup> —Continued			Type of ownership or control <sup>1</sup>						
Single unit			Corporate	Noncorporate					
Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership <sup>2</sup>	Cooperative	Other <sup>2</sup>	
26	16	10	34	11	7	3	...	1	1
7	7	...	19	...	...	...	...	...	2
433	(D)	(D)	1,561	67	58	(D)	...	(D)	3
1,778	(D)	(D)	7,217	280	239	(D)	...	(D)	4
3,872	(D)	(D)	19,691	981	763	(D)	...	(D)	5
4,980	(D)	(D)	27,296	1,047	914	(D)	...	(D)	6
1,081	(D)	(D)	2,028	675	120	(D)	...	(D)	7
78	26	52	68	56	37	19	...	...	8
5	4	1	14	2	1	1	...	...	9
509	(D)	(D)	1,062	194	107	87	...	...	10
2,182	(D)	(D)	4,624	821	400	421	...	...	11
5,472	(D)	(D)	9,308	2,788	1,397	1,391	...	...	12
7,437	(D)	(D)	12,774	3,599	1,895	1,704	...	...	13
428	(D)	(D)	814	227	113	114	...	...	14
18	4	14	26	15	12	3	...	...	15
3	1	2	13	2	...	2	...	...	16
149	(D)	(D)	601	87	29	58	...	...	17
589	(D)	(D)	2,536	349	85	264	...	...	18
1,447	(D)	(D)	10,969	1,251	227	1,024	...	...	19
2,074	(D)	(D)	15,293	1,550	264	1,286	...	...	20
97	(D)	(D)	1,017	66	29	37	...	...	21
105	29	76	96	86	51	33	...	2	22
8	8	...	19	...	...	...	...	...	23
608	383	225	1,203	270	135	(D)	...	(D)	24
2,294	1,623	671	5,159	861	395	(D)	...	(D)	25
5,621	3,749	1,872	12,187	2,353	1,323	(D)	...	(D)	26
7,030	4,422	2,608	15,369	3,237	1,660	(D)	...	(D)	27
947	655	292	1,745	362	192	(D)	...	(D)	28
9	6	3	11	3	...	3	...	...	29
3	2	1	5	1	...	1	...	...	30
293	248	45	607	45	...	45	...	...	31
955	846	109	2,290	109	...	109	...	...	32
2,254	1,881	373	5,582	373	...	373	...	...	33
3,027	2,516	511	8,181	511	...	511	...	...	34
244	161	83	496	83	...	83	...	...	35
21	16	5	45	8	2	6	...	...	36
11	9	2	23	3	...	3	...	...	37
1,085	938	147	3,211	183	(D)	(D)	...	...	38
3,903	3,512	391	13,497	517	(D)	(D)	...	...	39
9,477	8,348	1,129	29,389	1,601	(D)	(D)	...	...	40
12,215	10,880	1,335	40,358	2,076	(D)	(D)	...	...	41
1,781	1,458	323	3,785	366	(D)	(D)	...	...	42
59	9	50	24	50	48	2	...	...	43
2	2	...	10	...	...	...	...	...	44
169	122	47	520	47	(D)	(D)	...	...	45
659	522	137	1,782	137	(D)	(D)	...	...	46
1,482	1,193	289	4,242	289	(D)	(D)	...	...	47
1,857	1,487	370	6,519	370	(D)	(D)	...	...	48
936	907	29	1,277	29	(D)	(D)	...	...	49
2	1	1	3	1	1	...	...	...	50
1	1	...	3	...	...	...	...	...	51
(D)	(D)	(D)	(D)	(D)	(D)	...	...	...	52
(D)	(D)	(D)	(D)	(D)	(D)	...	...	...	53
(D)	(D)	(D)	(D)	(D)	(D)	...	...	...	54
(D)	(D)	(D)	(D)	(D)	(D)	...	...	...	55
(D)	(D)	(D)	(D)	(D)	(D)	...	...	...	56



## General Statistics for Mineral Industries Establishments in the United States Classified by Type of Company

	Industry code, major industry group, industry, and item	All establishments, total	Type of company organization <sup>1</sup>		
			Multiunit		
			Total	Corporate ownership or control	Noncorporate ownership
	INDUSTRIES: 1958—Continued				
	1459—Clay and related minerals, nec:				
1	Number of establishments.....	122	41	39	2
2	With 20 or more employees.....	33	19	19	...
	All employees:				
3	Number.....	1,662	814	(D)	(D)
4	Payroll.....\$1,000..	6,995	3,735	(D)	(D)
5	Value added in mining.....do....	13,154	7,167	(D)	(D)
6	Value of shipments and receipts.....do....	22,004	12,323	(D)	(D)
7	Capital expenditures.....do....	2,982	1,847	(D)	(D)
	1472—Barite				
8	Number of establishments.....	53	20	16	4
9	With 20 or more employees.....	8	7	6	1
	All employees:				
10	Number.....	929	762	696	66
11	Payroll.....\$1,000..	3,402	2,900	2,659	241
12	Value added in mining.....do....	11,321	10,229	9,592	637
13	Value of shipments and receipts.....do....	13,768	12,354	11,575	779
14	Capital expenditures.....do....	973	562	518	44
	1473—Fluorspar:				
15	Number of establishments.....	55	15	15	...
16	With 20 or more employees.....	11	8	8	...
	All employees:				
17	Number.....	1,235	954	954	...
18	Payroll.....\$1,000..	5,616	4,431	4,431	...
19	Value added in mining.....do....	12,653	8,030	8,030	...
20	Value of shipments and receipts.....do....	19,977	12,684	12,684	...
21	Capital expenditures.....do....	1,566	737	737	...
	1474—Potash, soda, borate minerals:				
22	Number of establishments.....	21	14	14	...
23	With 20 or more employees.....	14	12	12	...
	All employees:				
24	Number.....	6,661	6,352	6,352	...
25	Payroll.....\$1,000..	41,067	39,218	39,218	...
26	Value added in mining.....do....	111,082	106,528	106,528	...
27	Value of shipments and receipts.....do....	141,115	135,030	135,030	...
28	Capital expenditures.....do....	11,393	10,347	10,347	...
	1475—Phosphate rock:				
29	Number of establishments.....	65	39	38	1
30	With 20 or more employees.....	37	33	33	...
	All employees:				
31	Number.....	5,393	5,020	(D)	(D)
32	Payroll.....\$1,000..	27,210	25,846	(D)	(D)
33	Value added in mining.....do....	64,375	61,452	(D)	(D)
34	Value of shipments and receipts.....do....	132,094	126,927	(D)	(D)
35	Capital expenditures.....do....	5,702	5,527	(D)	(D)
	1476—Rock salt:				
36	Number of establishments.....	22	11	11	...
37	With 20 or more employees.....	12	10	10	...
	All employees:				
38	Number.....	1,984	1,736	1,736	...
39	Payroll.....\$1,000..	10,996	9,493	9,493	...
40	Value added in mining.....do....	34,073	30,862	30,862	...
41	Value of shipments and receipts.....do....	41,813	37,776	37,776	...
42	Capital expenditures.....do....	2,607	2,491	2,491	...
	1477—Sulfur:				
43	Number of establishments.....	24	15	15	...
44	With 20 or more employees.....	13	13	13	...
	All employees:				
45	Number.....	3,677	3,640	3,640	...
46	Payroll.....\$1,000..	24,570	24,420	24,420	...
47	Value added in mining.....do....	94,063	93,947	93,947	...
48	Value of shipments and receipts.....do....	106,202	105,995	105,995	...
49	Capital expenditures.....do....	16,282	16,126	16,126	...
	1479—Chemical-fertilizer mining, nec:				
50	Number of establishments.....	31	19	19	...
51	With 20 or more employees.....	7	7	7	...
	All employees:				
52	Number.....	677	632	632	...
53	Payroll.....\$1,000..	3,115	2,961	2,961	...
54	Value added in mining.....do....	7,586	7,396	7,396	...
55	Value of shipments and receipts.....do....	9,643	9,546	9,546	...
56	Capital expenditures.....do....	607	411	411	...

See footnotes at end of table.

## Organization and Ownership, by Major Industry Groups, 1958 and 1954, and by Industries. 1958--Continued

Type of company organization <sup>1</sup> —Continued			Type of ownership or control <sup>1</sup>						
Single unit			Corporate	Noncorporate					
Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership <sup>2</sup>	Cooperative	Other <sup>2</sup>	
81	43	38	82	40	31	9	...	...	1
14	13	1	32	1	1	...	...	...	2
848	(D)	(D)	1,523	139	108	31	...	...	3
3,260	(D)	(D)	6,464	531	401	130	...	...	4
5,987	(D)	(D)	12,146	1,008	748	260	...	...	5
9,681	(D)	(D)	20,586	1,418	1,076	342	...	...	6
1,135	(D)	(D)	2,753	229	122	107	...	...	7
33	16	17	32	21	10	11	...	...	8
1	1	...	7	1	...	1	...	...	9
167	111	56	807	122	23	99	...	...	10
502	348	154	3,007	395	67	328	...	...	11
1,092	822	270	10,414	907	73	834	...	...	12
1,414	1,059	355	12,634	1,134	96	1,038	...	...	13
411	339	72	857	116	15	101	...	...	14
40	10	30	25	30	11	19	...	...	15
3	1	2	9	2	1	1	...	...	16
281	108	173	1,062	173	93	80	...	...	17
1,185	503	682	4,934	682	393	289	...	...	18
4,623	1,297	3,326	9,327	3,326	861	2,465	...	...	19
7,293	2,880	4,413	15,564	4,413	1,523	2,890	...	...	20
829	145	684	882	684	519	165	...	...	21
7	5	2	19	2	1	1	...	...	22
2	2	...	14	...	...	...	...	...	23
309	(D)	(D)	(D)	(D)	(D)	(D)	...	...	24
1,849	(D)	(D)	(D)	(D)	(D)	(D)	...	...	25
4,554	(D)	(D)	(D)	(D)	(D)	(D)	...	...	26
6,085	(D)	(D)	(D)	(D)	(D)	(D)	...	...	27
1,046	(D)	(D)	(D)	(D)	(D)	(D)	...	...	28
26	8	18	46	19	8	9	...	2	29
4	2	2	35	2	1	...	...	1	30
373	(D)	(D)	5,115	278	111	(D)	...	(D)	31
1,374	(D)	(D)	26,316	894	362	(D)	...	(D)	32
2,923	(D)	(D)	62,377	1,998	916	(D)	...	(D)	33
5,167	(D)	(D)	129,271	2,823	1,181	(D)	...	(D)	34
175	(D)	(D)	5,592	110	40	(D)	...	(D)	35
11	5	6	16	6	5	1	...	...	36
2	2	...	12	...	...	...	...	...	37
248	239	9	1,975	9	(D)	(D)	...	...	38
1,503	1,477	26	10,970	26	(D)	(D)	...	...	39
3,211	3,152	59	34,014	59	(D)	(D)	...	...	40
4,037	3,919	118	41,695	118	(D)	(D)	...	...	41
116	115	1	2,606	1	(D)	(D)	...	...	42
9	8	1	23	1	...	1	...	...	43
...	...	...	13	...	...	...	...	...	44
37	(D)	(D)	(D)	(D)	...	(D)	...	...	45
150	(D)	(D)	(D)	(D)	...	(D)	...	...	46
116	(D)	(D)	(D)	(D)	...	(D)	...	...	47
207	(D)	(D)	(D)	(D)	...	(D)	...	...	48
156	(D)	(D)	(D)	(D)	...	(D)	...	...	49
12	8	4	27	4	3	1	...	...	50
...	...	...	7	...	...	...	...	...	51
45	37	8	669	8	(D)	(D)	...	...	52
154	128	26	3,089	26	(D)	(D)	...	...	53
190	152	38	7,548	38	(D)	(D)	...	...	54
97	54	43	9,600	43	(D)	(D)	...	...	55
196	195	1	606	1	(D)	(D)	...	...	56



## General Statistics for Mineral Industries Establishments in the United States Classified by Type of Company

	Industry code, major industry group, industry, and item	All establishments, total	Type of company organization <sup>1</sup>		
			Multiunit		
			Total	Corporate ownership or control	Noncorporate ownership
	INDUSTRIES: 1958—Continued				
	1481—Nonmetallic minerals stripping services:				
1	Number of establishments.....	47	4	3	1
2	With 20 or more employees.....	3	1	1	...
	All employees:				
3	Number.....	626	84	(D)	(D)
4	Payroll.....\$1,000..	1,907	444	(D)	(D)
5	Value added in mining services.....do...	3,780	1,084	(D)	(D)
6	Receipts for services and shipments.....do...	4,787	1,417	(D)	(D)
7	Capital expenditures.....do...	591	12	(D)	(D)
	1482—Nonmetallic services, nec:				
8	Number of establishments.....	28	3	...	3
9	With 20 or more employees.....	3	1	...	1
	All employees:				
10	Number.....	483	253	...	253
11	Payroll.....\$1,000..	1,615	639	...	639
12	Value added in mining services.....do...	2,437	873	...	873
13	Receipts for services and shipments.....do...	3,147	929	...	929
14	Capital expenditures.....do...	257	7	...	7
	1492—Gypsum:				
15	Number of establishments.....	32	12	12	...
16	With 20 or more employees.....	4	4	4	...
	All employees:				
17	Number.....	406	339	339	...
18	Payroll.....\$1,000..	1,805	1,548	1,548	...
19	Value added in mining.....do...	5,958	5,148	5,148	...
20	Value of shipments and receipts.....do...	7,048	5,926	5,926	...
21	Capital expenditures.....do...	820	690	690	...
	1493—Mica:				
22	Number of establishments.....	149	13	7	6
23	With 20 or more employees.....	8	3	1	2
	All employees:				
24	Number.....	727	161	99	62
25	Payroll.....\$1,000..	2,007	436	342	94
26	Value added in mining.....do...	4,974	651	374	277
27	Value of shipments and receipts.....do...	6,221	1,059	664	395
28	Capital expenditures.....do...	1,171	307	257	50
	1494—Native asphalt and bitumens:				
29	Number of establishments.....	10	7	4	3
30	With 20 or more employees.....	5	4	3	1
	All employees:				
31	Number.....	464	415	369	46
32	Payroll.....\$1,000..	2,265	(D)	1,857	(D)
33	Value added in mining.....do...	5,954	(D)	4,695	(D)
34	Value of shipments and receipts.....do...	8,041	(D)	6,572	(D)
35	Capital expenditures.....do...	723	(D)	642	(D)
	1495—Pumice and pumicite:				
36	Number of establishments.....	64	14	13	1
37	With 20 or more employees.....	2	...	...	...
	All employees:				
38	Number.....	316	87	(D)	(D)
39	Payroll.....\$1,000..	1,103	326	(D)	(D)
40	Value added in mining.....do...	4,058	1,349	(D)	(D)
41	Value of shipments and receipts.....do...	5,002	1,539	(D)	(D)
42	Capital expenditures.....do...	580	83	(D)	(D)
	1496—Talc, soapstone, pyrophyllite:				
43	Number of establishments.....	64	37	32	5
44	With 20 or more employees.....	12	9	8	1
	All employees:				
45	Number.....	1,294	878	831	47
46	Payroll.....\$1,000..	5,320	3,399	3,158	241
47	Value added in mining.....do...	11,755	8,076	7,845	231
48	Value of shipments and receipts.....do...	14,908	10,098	9,771	327
49	Capital expenditures.....do...	898	445	445	...
	1497—Natural abrasives, except sand:				
50	Number of establishments.....	20	3	1	2
51	With 20 or more employees.....	4	2	1	1
	All employees:				
52	Number.....	229	48	(D)	(D)
53	Payroll.....\$1,000..	1,007	(D)	(D)	(D)
54	Value added in mining.....do...	2,648	(D)	(D)	(D)
55	Value of shipments and receipts.....do...	3,373	(D)	(D)	(D)
56	Capital expenditures.....do...	149	(D)	(D)	(D)

See footnotes at end of table.

## Organization and Ownership, by Major Industry Groups, 1958 and 1954, and by Industries. 1958--Continued

Type of company organization <sup>1</sup> —Continued			Type of ownership or control <sup>1</sup>						
Single unit			Corporate	Noncorporate					
Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership <sup>2</sup>	Cooperative	Other <sup>2</sup>	
43	9	34	12	35	23	12	...	...	1
2	...	2	1	2	2	...	...	...	2
542	(D)	(D)	103	523	466	57	...	...	3
1,463	(D)	(D)	468	1,439	1,184	255	...	...	4
2,696	(D)	(D)	1,174	2,606	1,879	727	...	...	5
3,370	(D)	(D)	1,534	3,253	2,353	900	...	...	6
579	(D)	(D)	90	501	411	90	...	...	7
25	6	19	6	22	14	8	...	...	8
2	1	1	1	2	2	...	...	...	9
230	63	167	63	420	380	40	...	...	10
976	333	643	333	1,282	1,128	154	...	...	11
1,564	673	891	673	1,764	1,539	225	...	...	12
2,218	1,056	1,162	1,056	2,091	1,789	302	...	...	13
250	134	116	134	123	117	6	...	...	14
20	8	12	20	12	8	4	...	...	15
...	...	...	4	...	...	...	...	...	16
67	16	51	355	51	37	14	...	...	17
257	60	197	1,608	197	154	43	...	...	18
810	83	727	5,231	727	597	130	...	...	19
1,122	137	985	6,063	985	843	142	...	...	20
130	12	118	702	118	96	22	...	...	21
136	33	103	40	109	54	55	...	...	22
5	2	3	3	5	...	5	...	...	23
566	253	313	352	375	53	322	...	...	24
1,571	754	817	1,096	911	119	792	...	...	25
4,323	1,424	2,899	1,798	3,176	498	2,678	...	...	26
5,162	1,787	3,375	2,451	3,770	537	3,233	...	...	27
864	250	614	507	664	208	456	...	...	28
3	3	...	7	3	...	3	...	...	29
1	1	...	4	1	...	1	...	...	30
49	49	...	418	46	...	46	...	...	31
(D)	(D)	...	(D)	(D)	...	(D)	...	...	32
(D)	(D)	...	(D)	(D)	...	(D)	...	...	33
(D)	(D)	...	(D)	(D)	...	(D)	...	...	34
(D)	(D)	...	(D)	(D)	...	(D)	...	...	35
50	23	27	36	28	19	7	...	2	36
2	2	...	2	...	...	...	...	...	37
229	(D)	(D)	258	58	46	(D)	...	(D)	38
777	(D)	(D)	911	192	150	(D)	...	(D)	39
2,709	(D)	(D)	3,465	593	467	(D)	...	(D)	40
3,463	(D)	(D)	4,207	795	623	(D)	...	(D)	41
497	(D)	(D)	477	103	83	(D)	...	(D)	42
27	10	17	42	22	12	10	...	...	43
3	3	...	11	1	...	1	...	...	44
416	362	54	1,193	101	50	51	...	...	45
1,921	1,716	205	4,874	446	194	252	...	...	46
3,679	2,911	768	10,756	999	699	300	...	...	47
4,810	3,900	910	13,671	1,237	757	480	...	...	48
453	375	78	820	78	66	12	...	...	49
17	7	10	8	12	8	4	...	...	50
2	2	...	3	1	...	1	...	...	51
181	(D)	(D)	177	52	23	29	...	...	52
(D)	(D)	(D)	798	209	111	98	...	...	53
(D)	(D)	(D)	2,129	519	370	149	...	...	54
(D)	(D)	(D)	2,784	589	420	169	...	...	55
(D)	(D)	(D)	96	53	12	41	...	...	56



## General Statistics for Mineral Industries Establishments in the United States Classified by Type of Company

	Industry code, major industry group, industry, and item	All establishments, total	Type of company organization <sup>1</sup>		
			Multiunit		
			Total	Corporate ownership or control	Noncorporate ownership
	INDUSTRIES: 1958—Continued				
	1498—Peat:				
1	Number of establishments.....	81	3	1	2
2	With 20 or more employees.....	3	...	...	...
	All employees:				
3	Number.....	389	(D)	(D)	(D)
4	Payroll.....\$1,000..	1,282	(D)	(D)	(D)
5	Value added in mining.....do...	3,640	(D)	(D)	(D)
6	Value of shipments and receipts.....do...	4,379	(D)	(D)	(D)
7	Capital expenditures.....do...	811	(D)	(D)	(D)
	1499—Nonmetallic minerals, nec:				
8	Number of establishments.....	55	21	21	...
9	With 20 or more employees.....	17	14	14	...
	All employees:				
10	Number.....	1,791	1,477	1,477	...
11	Payroll.....\$1,000..	8,610	7,560	7,560	...
12	Value added in mining.....do...	23,368	21,420	21,420	...
13	Value of shipments and receipts.....do...	31,611	28,954	28,954	...
14	Capital expenditures.....do...	4,188	3,760	3,760	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Figures are based on individual establishment reports received in the 1958 Census of Mineral Industries from operators of such establishments. Each establishment was classified in accordance with the principal mineral produced or for which development or exploration was undertaken or, in the case of mineral service establishments, the primary type of service performed. Hence, the statistics presented in this table should not be compared directly with the tabulations in which the entire company or corporation represents the reporting unit and is classified in a single industry, such as statistics on corporation income compiled by the Internal Revenue Service, United States Treasury Department. Mineral establishments were classified as part of a multiunit company when the company operated at least two establishments in the mineral industries or one establishment in the mineral industries and at least one other establishment in manufacturing, retail, wholesale, or service trade industries.

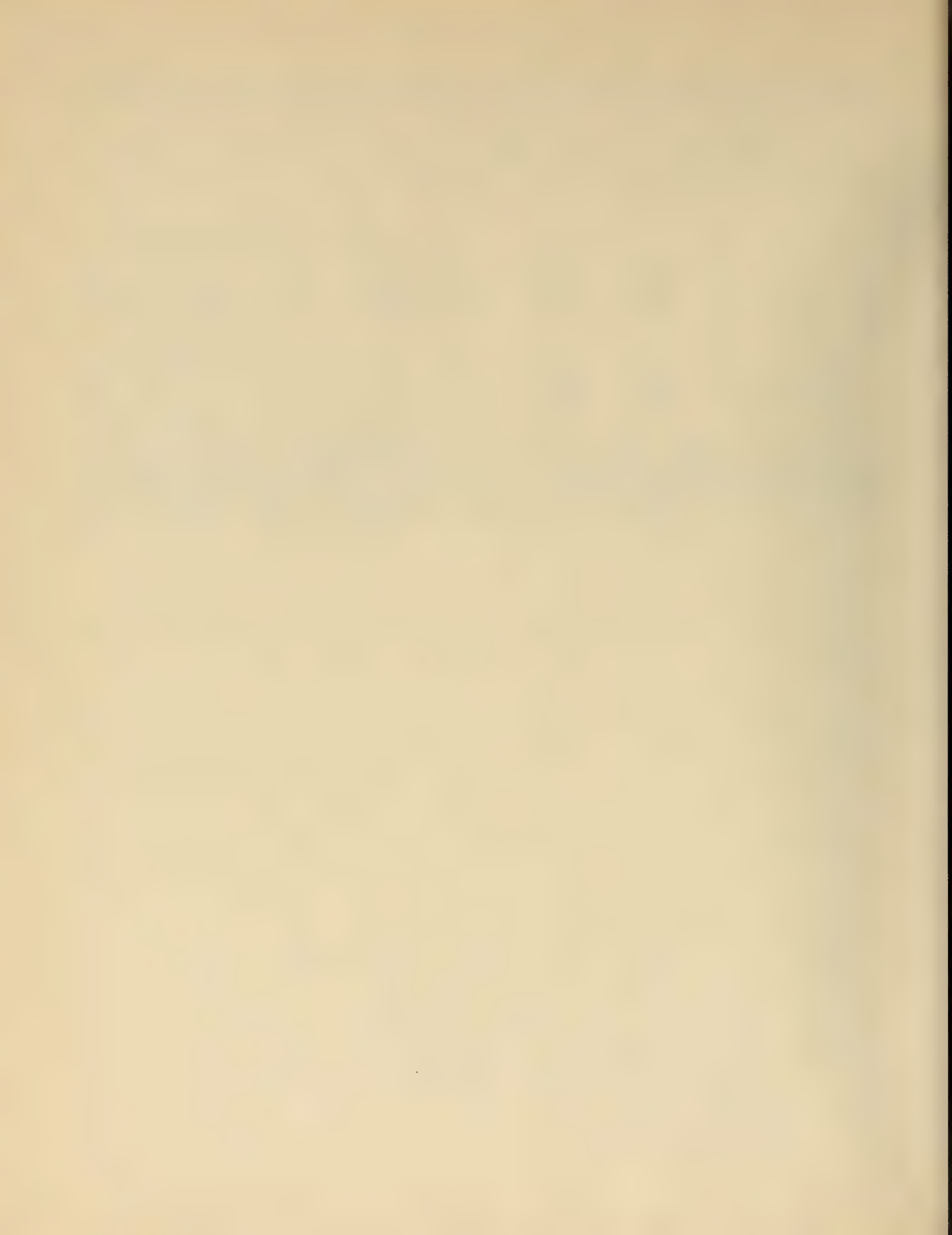
## Organization and Ownership, by Major Industry Groups, 1958 and 1954, and by Industries. 1958--Continued

Type of company organization <sup>1</sup> —Continued			Type of ownership or control <sup>1</sup>						
Single unit			Corporate	Noncorporate					
Total	Corporate ownership or control	Noncorporate ownership		Total	Individual	Partnership <sup>2</sup>	Cooperative	Other <sup>2</sup>	
78	27	51	28	53	45	8	...	...	1
3	3	...	3	...	...	...	...	...	2
(D)	(D)	(D)	272	117	95	22	...	...	3
(D)	(D)	(D)	961	321	268	53	...	...	4
(D)	(D)	(D)	2,663	977	844	133	...	...	5
(D)	(D)	(D)	3,330	1,049	924	125	...	...	6
(D)	(D)	(D)	475	336	292	44	...	...	7
34	19	15	40	15	9	6	...	...	8
3	3	...	17	...	...	...	...	...	9
314	257	57	1,734	57	27	30	...	...	10
1,050	910	140	8,470	140	71	69	...	...	11
1,948	1,529	419	22,949	419	219	200	...	...	12
2,657	2,033	624	30,987	624	386	238	...	...	13
428	289	139	4,049	139	45	94	...	...	14

<sup>2</sup>For 1958, noncorporate "joint ventures" were included under "Other," whereas in 1954, they were included under "Partnership." For 1958, such joint ventures account for the major portion of the "Other" category in Major Group 13. The "Other" category includes for both years such organizations as estate administrators, trusteeships, and church groups.

<sup>3</sup>Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeded the sum of value of shipments and receipts and capital expenditures.





# EMPLOYMENT AND RELATED STATISTICS

4-1



# VALUE ADDED PER MAN-HOUR AND ENERGY USED PER PRODUCTION WORKER IN THE MINERAL INDUSTRIES IN THE UNITED STATES: 1958 AND 1954

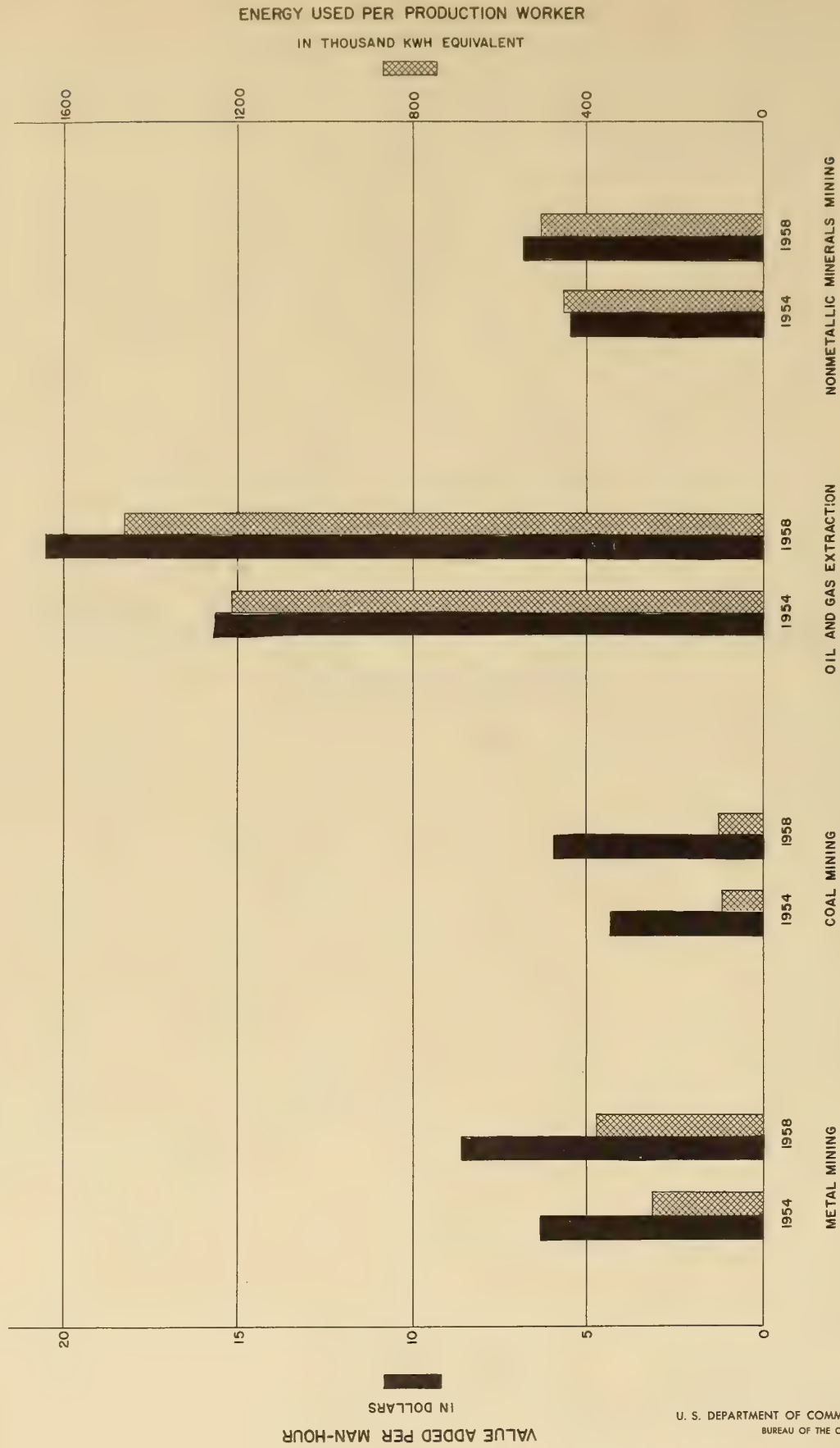


Table 1.—Employment, Man-Hours by Department, Value Added in Mining Per Man-Hour, and Energy Used Per Production Worker in the Mineral Industries for the United States, by Industry Group and Industry: 1958 and 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, industry, and year	Number of employees		Man-hours worked by production and development workers (1,000)							Value added per man-hour (dollars)	Energy used for production worker (1,000 kWh equivalent)	
		Total	Production and development workers	Total		At mines				At preparation plants			
				All types of work	Development and exploration work only	Underground	Open-pit <sup>1</sup>	Well operations	Surface (including mines shops and yards)				
10	All mineral industries.....	1958..	732,632	564,281	1,077,864	177,852	260,594	144,763	415,554	74,777	182,176	12.41	718
		1954..	785,708	647,141	1,248,898	239,044	345,179	143,256	467,225	(NA)	(NA)	9.25	576
	Metal mining.....	1958..	92,501	71,402	136,750	9,517	49,516	25,269	xxx	27,625	34,340	8.68	384
		1954..	100,250	81,896	168,346	20,693	68,254	30,323	xxx	39,066	30,703	6.39	255
1011	Iron ores.....	1958..	31,576	23,659	41,737	1,661	13,894	9,865	xxx	7,875	10,103	11.99	469
		1954..	34,170	28,216	53,288	8,419	19,956	12,671	xxx	13,374	7,287	8.18	210
1021	Copper ores.....	1958..	27,642	20,898	41,021	1,672	10,438	10,691	xxx	8,127	11,765	6.50	490
		1954..	27,813	21,544	46,676	5,173	13,880	11,174	xxx	11,165	10,457	7.17	430
1031	Lead and zinc ores.....	1958..	11,227	8,728	16,734	1,491	11,118	22	xxx	3,551	2,043	4.40	132
		1954..	16,566	13,592	27,554	1,498	18,357	139	xxx	4,477	4,581	3.90	121
	Lead ores.....	1958..	6,883	5,460	10,397	1,141	7,048	17	xxx	2,223	1,109	4.62	121
		1954..	8,720	7,156	14,654	954	10,273	101	xxx	2,416	1,864	4.28	105
	Zinc ores.....	1958..	4,344	3,268	6,337	350	4,070	5	xxx	1,328	934	4.05	151
		1954..	7,846	6,436	12,900	544	8,084	38	xxx	2,061	2,717	3.46	139
104	Gold and silver ores....	1958..	3,939	3,411	7,071	967	4,195	660	xxx	1,420	796	5.36	( <sup>2</sup> )
		1954..	4,831	4,200	9,363	1,201	4,919	1,047	xxx	2,371	1,026	3.78	212
1042	Lode gold.....	1958..	2,586	2,234	4,602	483	2,943	98	xxx	985	576	4.92	( <sup>2</sup> )
		1954..	3,020	2,634	5,894	884	3,271	115	xxx	1,734	774	3.71	243
1043	Placer gold.....	1958..	364	323	723	132	2	555	xxx	115	51	6.74	( <sup>2</sup> )
		1954..	556	501	1,255	71	21	907	xxx	284	43	2.88	339
1044	Silver ores.....	1958..	989	854	1,746	352	1,250	7	xxx	320	169	5.94	129
		1954..	1,255	1,065	2,214	246	1,627	25	xxx	353	209	4.45	76
1051	Bauxite.....	1958..	705	502	905	24	238	153	xxx	322	192	17.05	( <sup>2</sup> )
		1954..	852	661	1,288	10	281	210	xxx	583	214	9.96	257
106	Ferroalloy ores.....	1958..	5,438	4,380	8,335	343	3,616	953	xxx	1,204	2,562	8.91	210
		1954..	8,078	6,838	15,122	1,030	7,482	1,484	xxx	1,815	4,341	7.10	165
1062	Manganese ores.....	1958..	2,099	1,792	3,475	88	1,159	690	xxx	557	1,069	5.76	325
		1954..	2,604	2,266	4,293	260	1,677	894	xxx	402	1,320	4.22	211
1064	Tungsten ores.....	1958..	638	508	977	113	388	22	xxx	106	461	8.36	( <sup>2</sup> )
		1954..	2,987	2,635	6,327	651	3,683	451	xxx	691	1,502	6.44	141
1069	Ferroalloy ores, nec....	1958..	2,701	2,080	3,883	142	2,069	241	xxx	541	1,032	11.87	( <sup>2</sup> )
		1954..	2,487	1,937	4,502	119	2,122	139	xxx	722	1,519	10.78	145
108	Metal mining services....	1958..	2,184	1,973	4,274	<sup>3</sup> 1,161	( <sup>4</sup> )	<sup>4</sup> 1,013	xxx	<sup>4</sup> 3,261	( <sup>4</sup> )	5.35	172
		1954..	3,059	2,863	6,519	<sup>3</sup> 1,873	( <sup>4</sup> )	<sup>4</sup> 2,740	xxx	<sup>4</sup> 3,779	( <sup>4</sup> )	4.10	125
1081	Metal mining stripping	1958..	553	505	1,013	<sup>3</sup> 464	( <sup>4</sup> )	<sup>4</sup> 1,013	xxx	( <sup>4</sup> )	( <sup>4</sup> )	8.36	283
		1954..	1,173	(NA)	2,722	<sup>3</sup> 1,613	( <sup>4</sup> )	<sup>4</sup> 2,688	xxx	<sup>4</sup> 34	( <sup>4</sup> )	4.80	(NA)
1082	Metal mining services, nec.....	1958..	1,631	1,468	3,261	<sup>3</sup> 697	( <sup>4</sup> )	( <sup>4</sup> )	xxx	<sup>4</sup> 3,261	( <sup>4</sup> )	4.41	134
		1954..	1,886	(NA)	3,797	<sup>3</sup> 260	( <sup>4</sup> )	<sup>4</sup> 52	xxx	<sup>4</sup> 3,745	( <sup>4</sup> )	3.59	(NA)
109	Miscellaneous metal ores	1958..	9,790	7,851	16,673	2,198	6,017	1,912	xxx	1,865	6,879	11.78	375
		1954..	4,881	3,982	8,536	1,489	3,379	858	xxx	1,502	2,797	(NA)	431
1092	Mercury ores.....	1958..	652	569	1,223	84	649	165	xxx	143	266	5.80	227
		1954..	453	372	841	73	572	30	xxx	104	135	3.99	210
1093	Titanium ores.....	1958..	962	706	1,234	7	...	319	xxx	186	729	10.33	603
		1954..	843	568	1,261	39	...	208	xxx	522	531	8.83	636
1094	Uranium-radium-vanadium ores.....	1958..	7,939	6,389	13,873	2,048	5,352	1,347	xxx	1,485	5,689	12.60	367
		1954..	3,467	2,944	6,227	1,329	2,764	562	xxx	793	2,108	(NA)	430
1099	Metallic ores, nec.....	1958..	237	187	343	59	16	81	xxx	51	195	5.38	241
		1954..	118	98	207	48	43	58	xxx	83	23	( <sup>3</sup> )	( <sup>3</sup> )
11	Anthracite mining.....	1958..	22,813	20,047	30,867	2,390	15,402	6,530	xxx	3,227	5,708	5.33	194
		1954..	37,462	33,026	48,266	441	27,958	7,721	xxx	6,600	5,987	4.08	218
1111	Anthracite.....	1958..	19,712	17,266	26,409	780	15,356	2,297	xxx	3,048	5,708	5.38	194
		1954..	32,769	28,823	42,061	441	27,844	1,903	xxx	6,327	5,987	3.97	229
1112	Anthracite stripping services.....	1958..	3,054	2,737	4,395	<sup>3</sup> 1,550	( <sup>4</sup> )	<sup>4</sup> 4,233	xxx	<sup>4</sup> 162	( <sup>4</sup> )	5.01	192
		1954..	4,556	4,074	6,038	<sup>6</sup> 2,334	xxx	5,818	xxx	220	xxx	4.82	148
1113	Anthracite mining services, nec.....	1958..	47	44	63	<sup>3</sup> 60	<sup>4</sup> 46	( <sup>4</sup> )	xxx	<sup>4</sup> 17	( <sup>4</sup> )	4.19	182
		1954..	137	129	167	(NA)	<sup>4</sup> 114	( <sup>4</sup> )	xxx	<sup>4</sup> 53	( <sup>4</sup> )	3.99	54

See footnotes at end of table.



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 1.—Employment, Man-Hours by Department, Value Added in Mining Per Man-Hour, and Energy Used Per Production Worker in the Mineral Industries for the United States, by Industry Group and Industry: 1958 and 1954—Continued

Ind. code	Industry group, industry, and year	Number of employees		Man-hours worked by production and development workers (1,000)							Value added per man-hour (dollars)	Energy used for production worker (1,000 kwh equivalent)	
		Total	Production and development workers	Total		At mines				At preparation plants			
				All types of work	Development and exploration work only	Under-ground	Open-pit <sup>1</sup>	Well operations	Surface (including mines shops and yards)				
12	Bituminous coal and lignite mining.....	1958..	187,706	163,533	267,699	3,718	184,557	31,600	xxx	26,950	24,592	6.01	91
		1954..	218,833	199,655	325,769	1,090	233,868	28,892	xxx	763,009	(7)	4.35	77
1211	Bituminous coal.....	1958..	185,676	161,711	264,308	2,985	184,222	29,036	xxx	26,719	24,331	6.00	8
		1954..	216,813	197,813	322,410	1,089	233,827	26,192	xxx	762,391	(7)	4.33	75
1212	Lignite.....	1958..	510	437	844	16	21	435	xxx	127	261	11.03	254
		1954..	574	505	901	1	41	545	xxx	7315	(7)	10.09	285
1213	Coal stripping services, nec.....	1958..	1,300	1,180	2,106	392	(4)	42,028	xxx	478	(4)	6.37	396
		1954..	1,284	1,196	2,202	61,223	(4)	82,155	xxx	8303	(4)	5.08	288
1214	Coal mining services, nec.....	1958..	220	205	441	325	4314	4101	xxx	426	(4)	3.87	107
		1954..	162	135	256	(8)	(4)	(8)	xxx	(8)	(4)	5.18	59
13	Oil and gas extraction.....	1958..	312,800	213,935	440,102	9159,350	xxx	xxx	413,155	xxx	26,947	20.53	1,451
		1954..	315,735	235,483	491,718	9207,128	xxx	xxx	463,856	xxx	27,862	15.61	1,211
1311	Crude petroleum and natural gas.....	1958..	180,040	102,445	200,930	936,359	xxx	xxx	200,930	xxx	xxx	36.53	1,342
		1954..	172,506	109,792	216,581	951,787	xxx	xxx	216,581	xxx	xxx	28.30	1,290
	Crude petroleum.....	1958..	164,723	92,358	181,246	932,938	xxx	xxx	181,246	xxx	xxx	37.65	1,389
		1954..	161,282	101,542	201,086	948,392	xxx	xxx	201,086	xxx	xxx	28.55	1,344
	Natural gas.....	1958..	15,317	10,087	19,684	93,421	xxx	xxx	19,684	xxx	xxx	26.24	910
		1954..	11,224	8,250	15,495	93,395	xxx	xxx	15,495	xxx	xxx	25.04	626
1321	Natural gas liquids.....	1958..	16,514	13,445	26,947	xxx	xxx	xxx	xxx	xxx	26,947	21.81	10,571
		1954..	17,340	13,560	27,862	xxx	xxx	xxx	xxx	xxx	27,862	(NA)	8,366
138	Oil and gas field services.....	1958..	116,246	98,045	212,225	9122,991	...	...	212,225	...	...	5.22	314
		1954..	125,889	112,131	247,275	9155,341	...	...	247,275	...	...	4.52	267
1381	Drilling oil and gas wells.....	1958..	59,411	52,274	109,470	9103,821	...	...	109,470	...	...	5.37	433
		1954..	67,976	62,145	133,216	9126,050	...	...	133,216	...	...	4.68	375
1382	Oil and gas exploration services.....	1958..	9,557	7,559	16,695	916,070	...	...	16,695	...	...	3.85	126
		1954..	11,488	10,010	23,978	923,040	...	...	23,978	...	...	3.39	94
1389	Oil and gas field services, nec.....	1958..	47,278	38,212	86,060	93,100	...	...	86,060	...	...	5.30	188
		1954..	46,425	39,976	90,081	96,251	...	...	90,081	...	...	4.59	144
14	Nonmetallic minerals mining.....	1958..	116,812	95,364	202,446	2,877	11,119	81,364	2,399	16,975	90,589	6.84	508
		1954..	113,428	97,081	214,799	9,692	15,099	76,320	3,369	17,781	102,230	5.50	451
1411	Dimension stone.....	1958..	2,306	2,055	3,690	55	8	2,965	xxx	654	63	3.54	(2)
		1954..	3,224	3,068	5,893	21	848	4,493	xxx	552	...	2.57	46
	Dimension limestone.....	1958..	583	491	879	16	...	790	xxx	76	13	4.26	(2)
		1954..	500	472	872	...	11	786	xxx	75	...	3.37	72
	Dimension granite.....	1958..	740	681	1,277	...	...	1,128	xxx	112	37	3.20	(2)
		1954..	967	917	1,769	10	138	1,476	xxx	155	...	2.59	38
	Dimension stone, nec.....	1958..	983	883	1,534	39	8	1,047	xxx	466	13	3.42	(2)
		1954..	1,757	1,679	3,252	11	699	2,231	xxx	322	...	2.34	43
1421	Crushed and broken stone.....	1958..	41,404	34,865	75,632	594	3,293	31,655	xxx	9,294	31,390	5.89	238
		1954..	37,471	33,178	75,680	2,292	3,979	30,106	xxx	8,779	32,816	4.47	207
	Crushed and broken limestone.....	1958..	31,408	26,372	57,112	479	3,068	23,522	xxx	8,129	22,393	5.85	261
		1954..	28,240	24,925	56,335	992	3,787	21,992	xxx	7,343	23,213	4.25	199
	Crushed and broken granite.....	1958..	3,309	2,906	6,442	40	...	2,891	xxx	489	3,062	5.20	132
		1954..	2,550	2,344	5,607	473	3	2,543	xxx	455	2,606	3.96	120
	Crushed and broken stone, nec.....	1958..	6,687	5,587	12,078	75	225	5,242	xxx	676	5,935	6.45	(2)
		1954..	6,681	5,909	13,738	827	189	5,571	xxx	981	6,997	5.58	278
1441	Sand and gravel.....	1958..	37,048	30,630	66,480	835	129	1035,433	xxx	(10)	30,918	6.54	281
		1954..	36,466	30,533	70,103	4,908	183	1029,718	xxx	(10)	40,202	5.09	297
1442	Common sand and gravel.....	1958..	34,164	28,268	61,733	825	129	1033,653	xxx	(10)	27,951	6.51	(2)
		1954..	34,090	28,423	65,600	4,896	144	1028,170	xxx	(10)	37,286	5.09	281

See footnotes at end of table.

Table 1.--Employment, Man-Hours by Department, Value Added in Mining Per Man-Hour, and Energy Used Per Production Worker in the Mineral Industries for the United States, by Industry Group and Industry: 1958 and 1954--Continued

Ind. code	Industry group, industry, and year	Number of employees		Man-hours worked by production and development workers (1,000)							Value added per man-hour (dollars)	Energy used for production worker (1,000 kWh equivalent)
		Total	Production and development workers	Total		At mines				At preparation plants		
				All types of work	Development and exploration work only	Underground	Open-pit <sup>1</sup>	Well operations	Surface (including mines shops and yards)			
1443	Nonmetallic minerals mining—Con. Sand and gravel—Con.											
	Glass sand.....1958..	1,628	1,339	2,833	5	...	10784	xxx	(10)	2,049	7.30	721
	.....1954..	1,295	1,144	2,505	3	35	10699	xxx	(10)	1,771	5.47	652
1444	Molding sand.....1958..	1,256	1,023	1,914	5	...	10996	xxx	(10)	918	6.32	372
	.....1954..	1,081	966	1,998	9	4	10849	xxx	(10)	1,145	4.50	345
145	Clay and related minerals.....1958..	8,773	7,298	14,897	362	615	4,846	xxx	556	8,880	5.86	750
	.....1954..	8,232	7,463	15,377	774	1,305	4,706	xxx	792	8,574	5.10	448
1452	Bentonite.....1958..	688	543	1,140	22	16	363	xxx	10	751	10.72	1,061
	.....1954..	634	578	1,340	16	4	415	xxx	8	913	12.20	638
1453	Fire clay.....1958..	1,473	1,279	2,214	100	489	1,174	xxx	120	431	6.57	(2)
	.....1954..	1,987	1,802	3,123	513	958	1,137	xxx	313	715	5.59	166
1454	Fuller's earth.....1958..	652	527	1,145	3	...	146	xxx	89	910	5.20	(2)
	.....1954..	564	510	1,109	42	...	278	xxx	...	831	3.77	580
1455	Kaolin and ball clay...1958..	3,394	2,722	5,675	215	26	1,712	xxx	242	3,695	5.46	526
	.....1954..	3,148	2,820	6,159	140	116	1,404	xxx	427	4,212	4.10	402
1456	Feldspar.....1958..	567	496	1,028	9	9	359	xxx	25	635	4.41	(2)
	.....1954..	616	579	1,235	32	143	442	xxx	15	635	3.28	176
1457	Magnesite and brucite..1958..	337	267	428	...	...	203	xxx	19	206	13.97	1,464
	.....1954..	132	121	237	...	...	176	xxx	...	61	5.79	132
1459	Clay and related minerals, nec.1958..	1,662	1,464	3,267	13	75	889	xxx	51	2,252	4.03	(2)
	.....1954..	1,151	1,053	2,174	31	84	854	xxx	29	1,207	4.50	1,069
147	Chemical-fertilizer minerals.....1958..	20,556	14,832	30,405	577	5,789	2,987	2,399	5,267	13,963	11.02	1,649
	.....1954..	21,609	17,295	36,418	776	7,561	4,050	3,369	6,400	15,038	9.35	1,334
1472	Barite.....1958..	929	781	1,588	28	240	429	xxx	50	869	7.13	(2)
	.....1954..	1,125	1,036	2,403	6	469	674	xxx	58	1,202	5.85	260
1473	Fluorspar.....1958..	1,235	1,044	2,105	96	913	111	xxx	149	932	6.01	(2)
	.....1954..	1,260	997	2,001	50	826	116	xxx	199	860	4.95	381
1474	Potash, soda, borate minerals.....1958..	6,661	4,590	9,212	110	2,466	215	xxx	826	5,705	12.06	1,841
	.....1954..	6,322	4,738	9,381	50	3,045	...	xxx	952	5,384	8.76	1,227
1475	Phosphate rock.....1958..	5,393	3,955	8,255	228	510	1,944	xxx	1,370	4,431	7.80	789
	.....1954..	5,440	4,579	10,119	303	691	2,941	xxx	1,560	4,927	6.14	653
1476	Rock salt.....1958..	1,984	1,602	3,508	...	1,389	84	xxx	525	1,510	9.71	260
	.....1954..	1,925	1,659	3,861	12	1,500	45	xxx	533	1,783	7.77	331
1477	Sulfur.....1958..	3,677	2,303	4,644	63	...	13	2,399	2,205	27	20.25	5,132
	.....1954..	4,095	3,077	6,229	113	...	33	3,369	2,807	20	19.93	4,177
1479	Chemical-fertilizer mining, nec.....1958..	677	557	1,093	52	271	191	xxx	142	489	6.94	144
	.....1954..	1,442	1,209	2,424	242	1,030	241	xxx	291	862	7.46	184
148	Nonmetallic minerals services.....1958..	1,109	1,037	1,893	<sup>3</sup> 231	(4)	<sup>4</sup> 1,124	xxx	<sup>4</sup> 769	(4)	3.28	101
	.....1954..	639	614	1,258	<sup>11</sup> 635	(4)	<sup>4</sup> 492	xxx	<sup>4</sup> 766	(4)	3.88	156
1481	Nonmetallic minerals stripping.....1958..	626	588	1,069	<sup>3</sup> 106	(4)	<sup>4</sup> 1,047	xxx	<sup>4</sup> 22	(4)	3.54	124
	.....1954..	294	(NA)	569	<sup>11</sup> 128	(4)	<sup>4</sup> 492	xxx	77	(4)	3.96	(NA)
1482	Nonmetallic services, nec.....1958..	483	449	824	<sup>3</sup> 125	(4)	<sup>4</sup> 77	xxx	<sup>4</sup> 747	(4)	2.96	71
	.....1954..	345	(NA)	689	<sup>11</sup> 507	(4)	...	xxx	689	(4)	3.82	(NA)
149	Miscellaneous minerals, nec.....1958..	5,616	4,647	9,449	223	1,285	2,354	xxx	435	5,375	6.60	(2)
	.....1954..	5,787	4,930	10,070	286	1,223	2,755	xxx	492	5,600	4.75	224
1492	Gypsum.....1958..	406	354	776	15	91	426	xxx	57	202	7.68	(2)
	.....1954..	449	399	926	8	95	467	xxx	26	338	5.78	213
1493	Mica.....1958..	727	649	1,204	47	237	335	xxx	49	583	4.13	(2)
	.....1954..	710	668	1,196	40	297	276	xxx	21	602	(2)	87
1494	Native asphalt and .....1958..	464	367	732	10	138	132	xxx	151	311	8.13	(2)
	.....1954..	551	451	987	21	147	244	xxx	229	367	4.92	146
1495	Pumice and pumicite.....1958..	316	271	409	15	...	232	xxx	1	176	9.92	(2)
	.....1954..	267	223	440	8	...	165	xxx	4	271	6.23	251

See footnotes at end of table.



## MINERAL INDUSTRIES—SUMMARY STATISTICS

Table 1.—Employment, Man-Hours by Department, Value Added in Mining Per Man-Hour, and Energy Used Per Production Worker in the Mineral Industries for the United States, by Industry Group and Industry: 1958 and 1954—Continued

Ind. code	Industry group, industry, and year	Number of employees		Man-hours worked by production and development workers (1,000)							Value added per man-hour (dollars)	Energy used for produc- tion worker (1,000 kwh equiva- lent)
		Total	Produc- tion and develop- ment workers	Total		At mines				At prep- aration plants		
				All types of work	Develop- ment and explora- tion work only	Under- ground	Open-pit <sup>1</sup>	Well opera- tions	Surface (including mines shops and yards)			
1496	Nonmetallic minerals mining—Con. Miscellaneous minerals, nec—Continued											
	Talc, soapstone, pyrophyllite.....1958..	1,294	1,123	2,289	51	530	278	xxx	81	1,400	5.14	( <sup>2</sup> )
	.....1954..	1,471	1,297	2,778	138	506	540	xxx	88	1,644	3.41	103
1497	Natural abrasives, except sand.....1958..	229	204	408	...	...	101	xxx	5	302	6.49	( <sup>2</sup> )
	.....1954..	218	197	403	2	2	80	xxx	3	318	7.02	452
1498	Peat.....1958..	389	335	613	41	...	311	xxx	11	291	5.94	( <sup>2</sup> )
	.....1954..	353	321	637	11	...	407	xxx	24	206	2.83	271
1499	Nonmetallic minerals, nec.....1958..	1,791	1,344	3,018	44	289	539	xxx	80	2,110	7.74	( <sup>2</sup> )
	.....1954..	1,768	1,374	2,703	58	176	576	xxx	97	1,854	6.45	451

NA Not available.

<sup>1</sup>Includes figures for floating equipment, for anthracite culm bank recovery, and for bituminous coal auger mining.

<sup>2</sup>Not shown since the undistributed fuels cost amounted to over 40 percent of the total cost of purchased fuels.

<sup>3</sup>Represents man-hours devoted to exploration work, including geophysical and other exploratory surveying, and to stripping overburden only.

<sup>4</sup>Somewhat different detail was reported for service establishments. The figures shown under "Open-pit" represent those reported for stripping overburden and for mining minerals for the account of others. The figures shown under "Surface" represent exploration work, including geophysical and other exploratory surveying, and such other services for metal mining as sinking mine shafts, driving mine tunnels, and drilling and for mining, such services as excavating, shop work, and hauling from mine to preparation plant. For coal mining separate figures are shown under "Underground" for such services as drilling, shop work, shaft sinking, and mine tunnelling.

<sup>5</sup>Not shown since the number of proprietors and firm members performing manual labor exceeds one-third of the number of production and development workers.

<sup>6</sup>Represents man-hours devoted to stripping overburden only. For Coal Stripping Services, NEC see also footnote 8.

<sup>7</sup>Figures for man-hours at preparation plants are included with those for man-hours at surface.

<sup>8</sup>Figures for Coal Mining Services, NEC are included with those for Coal Stripping Services, NEC. See Also Footnote 4.

<sup>9</sup>Represents man-hours for drilling wells and rig building and for exploration work (except drilling).

<sup>10</sup>Figures for "Surface" are included with those for "Open pit".

<sup>11</sup>Represents man-hours for prospect and test drilling and for stripping overburden.

Table 2.—Monthly Employment in the Mineral Industries in the United States,  
by Industry Group and Industry: 1958

Ind. code	Industry group and industry	Number of production and development workers																				
		Average for the year	By month																			
			January	Feb- ruary	March	April	May	June	July	August	Septem- ber	October	Novem- ber	December								
	All mineral indus- tries.....	564,281	(NA)	(NA)	567,599	(NA)	562,866	(NA)	(NA)	564,945	(NA)	(NA)	566,690	(NA)								
10	Metal mining.....	71,402	(NA)	(NA)	73,350	(NA)	71,873	(NA)	(NA)	69,465	(NA)	(NA)	70,737	(NA)								
1011	Iron ores.....	23,659	26,372	25,699	24,423	22,406	22,888	22,888	23,133	24,172	24,397	23,784	23,245	23,120								
1021	Copper ores.....	20,898	(NA)	(NA)	21,202	(NA)	20,663	(NA)	(NA)	20,067	(NA)	(NA)	21,661	(NA)								
1031	Lead and zinc ores.....	8,728	}	}	9,637	}	9,307	}	}	7,814	}	}	8,109	}								
	Lead ores.....	5,460			5,841		5,684			5,098			5,175									
	Zinc ores.....	3,268			3,796		3,623			2,716			2,934									
104	Gold and silver ores....	3,411			3,332		3,449			3,487			3,429									
1042	Lode gold.....	2,234	(NA)	(NA)	2,205	(NA)	2,260	(NA)	(NA)	2,296	(NA)	(NA)	2,225	(NA)								
1043	Placer gold.....	323	}	}	294	}	319	}	}	342	}	}	328	}								
1044	Silver ores.....	854			833		870			849			876									
1051	Bauxite.....	502			544		466			499			495									
106	Ferroalloy ores.....	4,380			4,711		4,693			4,270			3,835									
1062	Manganese ores.....	1,792	1,618	1,544	1,554	1,672	1,743	1,767	1,849	1,903	1,869	1,884	1,954	1,866								
1064	Tungsten ores.....	508	}	}	745	}	722	}	}	392	}	}	185	}								
1069	Ferroalloy ores, nec..	2,080			(NA)		(NA)			2,412			(NA)		2,228	(NA)	1,975	(NA)	(NA)	1,696	(NA)	
108	Metal mining services...	1,973	2,005	1,977	1,928	1,900	2,038	1,949	2,019	2,029	2,027	2,078	1,902	1,859								
1081	Metal mining stripping services.....	505	411	416	421	463	520	547	563	575	551	555	515	460								
1082	Metal mining ser- vices, nec.....	1,468	1,594	1,561	1,507	1,437	1,518	1,402	1,456	1,454	1,476	1,523	1,387	1,399								
109	Miscellaneous metal ores	7,851	7,483	7,572	7,573	7,673	7,663	7,907	8,182	8,127	8,118	8,061	8,061	8,054								
1092	Mercury ores.....	569	551	539	548	553	545	548	563	562	548	549	551	552								
1093	Titanium ores.....	706	738	910	906	671	660	674	673	643	631	625	623	631								
1094	Uranium-radium- vanadium ores.....	6,389	5,974	5,949	5,900	6,262	6,271	6,500	6,759	6,746	6,750	6,716	6,717	6,697								
1099	Metallic ores, nec....	187	220	174	219	187	187	185	187	176	189	171	170	174								
11	Anthracite mining.....	20,047	22,235	21,789	21,290	19,485	19,511	19,196	19,503	19,386	19,663	20,200	20,093	19,915								
1111	Anthracite.....	17,266	19,282	18,955	18,446	16,837	16,815	16,436	16,897	16,587	16,802	17,329	17,318	17,141								
1112	Anthracite stripping services.....	2,737	2,902	2,785	2,797	2,600	2,644	2,729	2,576	2,751	2,813	2,824	2,745	2,743								
1113	Anthracite mining services, nec.....	44	51	49	47	48	52	31	30	48	48	47	30	31								
12	Bituminous coal mining....	163,533	182,169	177,510	173,187	168,787	160,423	161,018	155,670	158,342	164,148	165,827	163,930	167,163								
1211	Bituminous coal.....	161,711	180,113	175,497	171,276	166,897	158,599	159,178	153,865	156,569	162,308	163,980	162,111	165,335								
1212	Lignite.....	437	550	529	459	396	396	393	405	398	421	480	508	535								
1213	Coal stripping ser- vices, nec.....	1,180	1,294	1,263	1,231	1,289	1,224	1,244	1,195	1,171	1,215	1,166	1,114	1,096								
1214	Coal mining services, nec.....	205	212	221	221	205	204	203	205	204	204	201	197	197								
13	Oil and gas extraction....	213,935	}	}	211,931	}	214,048	}	}	217,792	}	}	215,246	}								
1311	Crude petroleum and natural gas.....	102,445			102,366		103,265			105,100			101,260									
	Crude petroleum.....	92,358			92,511		93,224			94,499			91,204									
	Natural gas.....	10,087			9,855		10,041			10,601			10,056									
1321	Natural gas liquids.....	13,445	}	}	13,551	}	13,509	}	}	13,641	}	}	13,140	}								
138	Oil and gas field ser- vices.....	98,045			(NA)		(NA)			96,014			(NA)		97,274	(NA)	(NA)	99,051	(NA)	(NA)	100,846	(NA)
1381	Drilling oil and gas wells.....	52,274								49,640					51,037			53,007			55,282	
1382	Oil and gas explora- tion services.....	7,559								7,970					7,698			7,468			7,230	
1389	Oil and gas field services, nec.....	38,212	}	}	38,404	}	38,539	}	}	38,576	}	}	38,334	}								
14	Nonmetallic minerals mining.....	95,364			(NA)		(NA)			87,841			(NA)		97,011	(NA)	(NA)	99,960	(NA)	(NA)	96,684	(NA)
1411	Dimension stone.....	2,055			}		}			1,759			}		2,185	}	}	2,274	}	}	2,006	}
	Dimension limestone subindustry.....	491								372					557			604			432	
	Dimension granite subindustry.....	681	637	710		705		674														
	Dimension stone, nec, subindustry.....	883	750	918		965		900														
1421	Crushed and broken stone	34,865	(NA)	(NA)	31,562	(NA)	35,525	(NA)	(NA)	36,812	(NA)	(NA)	35,575	(NA)								
	Crushed and broken limestone subindustry	26,372	}	}	23,828	}	26,983	}	}	27,779	}	}	26,899	}								
	Crushed and broken granite subindustry..	2,906			2,649		2,869			3,154			2,968									
	Crushed and broken stone, nec, sub- industry.....	5,587			5,085		5,673			5,879			5,708									

NA Not available.



## MINERAL INDUSTRIES—SUMMARY STATISTICS

Table 2.—Monthly Employment in the Mineral Industries in the United States,  
by Industry Group and Industry: 1958—Continued

Ind. code	Industry group and industry	Number of production and development workers																																															
		Average for the year	By month																																														
			January	Feb- ruary	March	April	May	June	July	August	Septem- ber	October	Novem- ber	December																																			
1441	Nonmetallic minerals mining—Continued																																																
	Sand and gravel.....	30,630	}	(NA)	(NA)	{	26,569	{	(NA)	{	31,429	{	(NA)	{	33,094	{	(NA)	{	31,406	{	(NA)																												
	Common sand and gravel subindustry...	28,268																				{	24,303	{	29,054	{	(NA)	{	30,709	{	(NA)	{	29,001	{															
	Glass sand subindustry	1,339																																	{	1,327	{	1,346	{	(NA)	{	1,329	{	(NA)	{	1,352	{		
	Molding sand sub- industry.....	1,023																				{	939	{	1,029	{	(NA)	{	1,056	{	(NA)	{	1,053	{															
145	Clay and related minerals.....	7,298	}	(NA)	(NA)	{	7,308	{	(NA)	{	7,315	{	(NA)	{	7,300	{	(NA)	{	7,270	{	(NA)																												
1452	Bentonite.....	543																				{	514	{	570	{	(NA)	{	555	{	(NA)	{	536	{															
1453	Fire clay.....	1,279																																	{	1,351	{	1,159	{	(NA)	{	1,312	{	(NA)	{	1,314	{		
1454	Fuller's earth.....	527																				{	576	{	546	{	(NA)	{	514	{	(NA)	{	466	{															
1455	Kaolin and ball clay..	2,722	{	2,697	{	2,756	{	(NA)	{	2,750	{	(NA)	{	2,692	{																																		
1456	Feldspar.....	496														{	516	{	498	{	510	{	512	{	517	{	488	{																					
1457	Magnesite and brucite.	267	{	505	{	295	{	295	{	164	{	473	{	465	{																																		
1459	Clay and related minerals, nec.....	1,464														{	(NA)	(NA)	{	1,377	{	(NA)	{	1,477	{	(NA)	{	1,517	{																				
			{	(NA)	(NA)	{	1,377	{	(NA)	{	1,477	{	(NA)	{	1,517															{																			
																{	(NA)	(NA)	{	1,377	{	(NA)	{	1,477	{	(NA)	{	1,472	{																				
147	Chemical and fertilizer minerals.....	14,832	}	(NA)	(NA)	{	15,180	{	(NA)	{	14,843	{	(NA)	{	14,547															{	(NA)	{	14,763	{	(NA)														
1472	Barite.....	781														{	877	{	850	{	839	{	803	{	716	{	713	{	746							{	733	{	744	{									
1473	Fluorspar.....	1,044																																							{	1,064	{	1,073	{	1,077	{	1,059	{
1474	Potash, soda, borate minerals.....	4,590														{	(NA)	(NA)	{	4,683	{	(NA)	{	4,702	{	(NA)	{	4,418	{							(NA)	{	4,558	{	(NA)									
1475	Phosphate rock.....	3,955	{	(NA)	(NA)	{	3,983	{	(NA)	{	3,882	{	(NA)	{	3,944															{	(NA)	{	3,999	{	(NA)														
1476	Rock salt.....	1,602														{	(NA)	(NA)	{	1,647	{	(NA)	{	1,560	{	(NA)	{	1,564	{							(NA)	{	1,648	{	(NA)									
1477	Sulfur.....	2,303	{	(NA)	(NA)	{	2,364	{	(NA)	{	2,311	{	(NA)	{	2,278															{	(NA)	{	2,261	{	(NA)														
1479	Chemical-fertilizer mining, nec.....	557														{	(NA)	(NA)	{	587	{	(NA)	{	571	{	(NA)	{	548	{							(NA)	{	528	{	(NA)									
			{	(NA)	(NA)	{	587	{	(NA)	{	571	{	(NA)	{	548															{	(NA)	{	528	{	(NA)														
148	Nonmetallic minerals services.....	1,037														}	915	917	{	929	{	953	{	968	{	1,129	{	1,155	{							1,171	{	1,140	{	1,075	{	1,074	{	1,076	{				
1481	Nonmetallic minerals stripping.....	588	{	466	{	460	{	463	{	502	{	524	{	680	{															703	{	728	{	695	{											628	{	629	{
1482	Nonmetallic services, nec.....	449																																															
			{	(NA)	(NA)	{	4,534	{	(NA)	{	4,746	{	(NA)	{	4,762															{	(NA)	{	4,590	{	(NA)											{	4,590	{	
1492	Gypsum.....	354														{	(NA)	(NA)	{	320	{	(NA)	{	363	{	(NA)	{	374	{							(NA)	{	364	{	(NA)	{	364	{						
1493	Mica.....	649	{	687	{	601	{	625	{	680	{	666	{	642	{															665	{	656	{	638	{									644	{				
1494	Native asphalt and bitumens.....	367														{	(NA)	(NA)	{	377	{	(NA)	{	358	{	(NA)	{	371	{							(NA)	{	357	{	(NA)	{	357	{						
1495	Pumice and pumicite...	271	{	(NA)	(NA)	{	229	{	(NA)	{	260	{	(NA)	{	309															{	(NA)	{	291	{	(NA)									{	291	{			
1496	Talc, soapstone, pyrophyllite.....	1,123														}	1,120	1,130	{	1,125	{	1,137	{	1,137	{	1,164	{	1,151	{							1,152	{	1,156	{	1,105	{	1,079	{				1,100	{	
1497	Natural abrasives, except sand.....	204	{	(NA)	(NA)	{	194	{	(NA)	{	211	{	(NA)	{	195															{	(NA)	{	312	{	(NA)									{	312	{			
1498	Peat.....	335																																															{
1499	Nonmetallic minerals, nec.....	1,344	{	(NA)	(NA)	{	1,331	{	(NA)	{	1,357	{	(NA)	{	1,369															{	(NA)	{	1,369	{	(NA)									{	1,334	{			

NA Not available.

Table 3.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining: 1958

Ind. code	Industry and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
10	All mineral industries, total.....	36,218	732,632	3,740,288	564,281	1,077,864	2,616,273	13,381,494	18,089,834	2,797,810
11	Metal mining.....	2,233	92,501	487,786	71,402	136,750	356,209	1,187,327	1,835,845	214,291
11	Anthracite mining.....	1,248	22,813	93,396	20,047	30,867	79,425	164,489	325,128	16,591
12	Bituminous coal and lignite mining..	6,930	187,706	912,784	163,533	267,699	760,364	1,609,964	2,423,361	188,195
13	Oil and gas extraction.....	18,501	312,800	1,699,420	213,935	440,102	1,010,679	9,035,289	11,636,887	2,189,735
14	Nonmetallic minerals mining.....	7,306	116,812	546,902	95,364	202,446	409,596	1,384,425	1,868,613	188,998
METAL MINING										
1011	Iron ores, total.....	242	31,576	174,387	23,659	41,737	120,618	500,232	681,938	42,749
	Less than 0.10.....	17	1,544	8,290	1,390	2,689	7,000	120,939	155,866	2,492
	0.10-0.19.....	38	3,411	18,811	2,890	5,272	14,985	133,811	154,500	4,085
	0.20-0.29.....	28	3,063	16,968	2,496	4,732	12,886	75,355	119,911	4,140
	0.30-0.39.....	24	3,100	17,973	2,699	4,785	15,067	51,602	60,613	4,387
	0.40-0.49.....	18	4,595	22,469	3,849	6,446	18,257	49,920	62,420	11,822
	0.50-0.59.....	18	4,120	21,691	3,699	6,036	18,564	40,311	49,380	3,274
	0.60-0.69.....	12	1,626	7,819	1,375	2,186	6,923	12,483	16,212	914
	0.70-0.79.....	7	915	5,082	794	1,494	4,179	6,765	10,158	729
	0.80-0.89.....	1	588	2,583	518	796	2,137	2,783	4,003	1,087
	0.90-0.99.....	5								
	1.00 and over.....	18	3,636	20,222	2,868	5,277	14,983	10,755	33,904	4,264
	Undistributed <sup>2</sup> .....	56	4,978	32,479	1,081	2,024	5,637	( <sup>3</sup> )	14,971	5,555
1021	Copper ores, total.....	148	27,642	143,501	20,898	41,021	106,357	266,485	457,644	44,874
	Less than 0.10.....	3	5	4	4	2	3	86	57	33
	0.10-0.19.....	6	51	224	37	81	177	1,662	1,959	176
	0.20-0.29.....	7	2,678	13,681	2,200	4,802	12,039	53,556	63,551	2,031
	0.30-0.39.....	6	3,625	18,370	2,927	5,767	14,385	57,959	73,596	4,007
	0.40-0.49.....	8	1,739	8,861	1,305	2,581	6,165	21,358	38,270	2,144
	0.50-0.59.....	9	5,622	29,465	4,474	8,786	24,378	53,760	85,926	5,695
	0.60-0.69.....	8	3,983	22,044	3,410	6,647	18,070	32,243	52,846	10,265
	0.70-0.79.....	4	4,172	21,482	3,351	6,052	16,328			
	0.80-0.89.....	6	2,167	10,661	1,420	2,791	7,069	39,869	116,943	8,007
	0.90-0.99.....	4	1,065	4,430	970	1,877	3,869	4,802	7,911	290
	1.00 and over.....	14	704	3,529	604	1,300	2,961	2,430	16,528	274
	Undistributed <sup>2</sup> .....	73	1,831	10,750	196	335	913	( <sup>3</sup> )	57	11,952
1031	Lead and zinc ores, total.....	288	11,227	54,397	8,728	16,734	39,001	73,679	120,561	8,619
	Less than 0.30.....	20	657	3,583	554	1,218	2,830	14,136	26,506	355
	0.30-0.39.....	9	91	386	77	144	323	1,188	1,387	202
	0.40-0.49.....	13	521	2,829	435	912	2,254	6,644	10,134	1,357
	0.50-0.59.....	8	604	2,525	514	986	2,065	4,598	6,262	56
	0.60-0.69.....	12	680	3,300	585	1,205	2,738	4,899	7,702	79
	0.70-0.79.....	18	4,035	17,929	3,337	6,276	14,018	24,475	32,623	3,483
	0.80-0.99.....	19	1,498	7,671	1,180	2,280	5,721	9,227	12,067	808
	1.00 and over.....	43	2,346	11,621	1,781	3,319	8,196	9,877	23,485	1,520
	Undistributed <sup>2</sup> .....	146	795	4,553	265	394	856	( <sup>3</sup> )	395	759
1042	Gold, total.....	244	2,586	12,447	2,234	4,602	10,709	22,659	29,506	1,728
	Less than 0.10.....	4	8	16	7	9	13	526	318	20
	0.10-0.19.....	5	79	505	71	163	431	3,474	3,793	95
	0.20-0.29.....	4	31	94	23	40	339	342	342	40
	0.30-0.39.....	8	55	346	50	111	307	960	1,212	78
	0.40-0.49.....	5	15	72	14	30	65	160	73	187
	0.50-0.59.....	6	1,816	9,376	1,562	3,261	8,056	15,987	20,207	361
	0.60-0.69.....	8	142	594	123	264	500	911	2,291	85
	0.70-0.79.....	3	18	63	12	35	58	80	3	137
	0.80-0.99.....	4	115	391	102	213	340	439	581	54
	1.00 and over.....	23	146	567	122	274	484	377	456	323
	Undistributed <sup>2</sup> .....	174	161	423	148	202	378	( <sup>3</sup> )	230	348
1043	Placer gold, total.....	74	364	1,790	323	723	1,515	4,873	6,326	340
	0.10-0.29.....	5	100	481	91	216	428	2,858	3,559	4
	0.30-0.49.....	7	104	597	95	169	518	1,579	1,447	172
	0.50-0.69.....	3	4	6	6	6	6	11	3	15
	1.00 and over.....	5	130	648	111	307	517	505	1,203	6
	Undistributed <sup>2</sup> .....	54	26	58	20	25	46	( <sup>3</sup> )	114	143
1044	Silver ores, total.....	61	989	5,757	854	1,746	4,840	10,364	12,557	1,156
	Less than 0.30.....	5	7	38	6	11	28	264	239	33
	0.30-0.39.....	4	202	1,191	177	372	1,030	3,537	4,302	177
	0.40-0.49.....	4	45	263	41	78	237	579	435	
	0.50-0.69.....	4	619	3,553	560	1,143	3,178	5,916	7,289	381
	0.80 and over.....	3	29	131	23	43	99	99	116	38
	Undistributed <sup>2</sup> .....	41	87	581	47	99	268	( <sup>3</sup> )	176	527
1051	Bauxite, total.....	29	705	3,606	502	905	2,290	15,430	18,174	1,408
	Less than 0.10.....	5	10	16	7	9	13	461	499	...
	0.10-0.29.....	8	449	2,514	326	596	1,652	13,510	14,770	202
	0.30-0.59.....	4	84	353	73	110	306	928	1,325	33
	0.60 and over.....	7	120	439	96	190	319	517	1,563	1,173
	Undistributed <sup>2</sup> .....	5	42	284	...	...	...	14	17	...

See footnotes at end of table.



Table 3.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining: 1958—Continued

Ind. code	Industry and ratio of payroll to value added in mining <sup>1</sup>	Estab-lish-ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
	METAL MINING—Continued									
1062	Manganese ores, total.....	186	2,099	9,036	1,792	3,475	7,244	20,014	39,385	2,190
	Less than 0.10.....	9	21	75	19	28	66	1,714	1,668	158
	0.10-0.19.....	13	81	244	71	104	196	1,566	3,299	138
	0.20-0.29.....	24	271	838	231	388	654	3,075	6,616	489
	0.30-0.39.....	15	322	1,679	240	527	1,163	5,226	9,721	264
	0.40-0.49.....	10	170	823	153	295	704	1,933	4,293	124
	0.50-0.59.....	10	144	444	138	252	427	826	1,276	55
	0.60-0.69.....	9	64	148	53	78	126	225	362	86
	0.70-0.79.....	6	612	3,143	535	1,126	2,643	3,429	4,709	242
	0.90-0.99.....	2								
	1.00 and over.....	16	361	1,495	310	617	1,169	1,280	6,373	337
	Undistributed <sup>2</sup> .....	72	53	147	42	60	96	740	1,068	297
1064	Tungsten ores, total.....	32	638	2,907	508	977	1,993	8,164	14,430	122
	Less than 0.20.....	2	638	2,907	508	977	1,993	8,164	14,430	122
	0.40-0.79.....	2								
	1.00 and over.....	4								
	Undistributed.....	24								
1069	Ferroalloy ores, nec, total.....	76	2,701	14,768	2,080	3,883	10,218	46,077	57,706	4,233
	Less than 0.30.....	13	183	1,067	152	340	799	8,394	9,289	250
	0.30-0.59.....	9	2,311	12,677	1,846	3,408	9,140	37,381	48,236	3,421
	0.80-0.99.....	3	11	38	11	18	38	45	22	192
	1.00 and over.....	8	56	234	63	100	221	167	29	312
	Undistributed <sup>2</sup> .....	43	140	752	8	17	20	90	130	58
1081	Metal mining stripping, total.....	29	553	2,672	505	1,013	2,357	8,472	10,270	855
	Less than 0.20.....	2	279	1,190	264	521	1,110	5,929	6,675	759
	0.20-0.29.....	3								
	0.30-0.39.....	6								
	0.40-0.49.....	3								
	0.50-0.59.....	2	177	975	160	312	844	1,612	2,381	28
	0.60-0.69.....	4								
	0.70-0.89.....	2								
	1.00 and over.....	1								
	Undistributed <sup>2</sup> .....	6	9	82	2	3	5	9	40	14
1082	Metal mining services, nec, total.....	66	1,631	9,425	1,468	3,261	8,267	14,390	22,114	408
	Less than 0.10.....	5	9	26	9	12	26	155	191	17
	0.20-0.29.....	5	12	48	12	24	48	179	240	15
	0.30-0.39.....	7	293	1,526	275	591	1,386	4,079	5,049	102
	0.40-0.49.....	11	65	277	61	121	261	603	779	15
	0.50-0.59.....	13	179	1,052	167	370	979	1,926	2,737	105
	0.60-0.69.....	9	270	1,642	242	550	1,469	2,572	3,781	62
	0.70-0.79.....	4	143	1,245	134	319	1,102	1,600	2,596	5
	0.80-0.89.....	3	195	1,395	186	433	1,324	1,674	2,701	31
	0.90-0.99.....	3	182	796	167	367	704	871	1,422	4
	1.00 and over.....	2	283	1,418	215	474	968	731	2,618	52
	Undistributed <sup>2</sup> .....	4								
1092	Mercury ores, total.....	79	652	3,112	569	1,223	2,627	7,093	8,607	862
	Less than 0.10.....	2	25	117	25	47	116	779	850	57
	0.10-0.19.....	2								
	0.20-0.29.....	4								
	0.30-0.39.....	2								
	0.40-0.49.....	6	295	1,507	251	535	1,219	2,966	3,383	464
	0.50-0.59.....	2								
	0.60-0.69.....	2								
	0.70-0.79.....	2								
	0.80-0.89.....	3	31	174	29	61	153	208	380	9
	1.00 and over.....	8	53	215	45	98	185	74	81	136
	Undistributed <sup>2</sup> .....	46	27	105	19	44	61	255	305	128
1093	Titanium ores, total.....	11	962	4,496	706	1,234	2,882	12,746	17,158	2,483
	0.10-0.19.....	1	478	2,415	365	623	1,656	8,629	11,247	906
	0.20-0.29.....	2								
	0.30-0.39.....	2								
	0.40-0.49.....	1								
	0.80-0.89.....	1	425	1,802	298	525	1,108	3,979	5,714	1,577
	1.00 and over.....	1								
	Undistributed <sup>2</sup> .....	3								

See footnotes at end of table.

Table 3.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining: 1958—Continued

Ind. code	Industry and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1094	Uranium-radium-vanadium ores, total.....	602	7,939	44,422	6,389	13,873	34,439	174,802	336,451	101,565
	Less than 0.10.....	16	48	212	30	51	130	11,962	12,846	550
	0.10-0.19.....	55	2,421	14,611	1,926	4,479	11,522	97,748	136,623	11,697
	0.20-0.29.....	57	1,393	8,207	1,154	2,517	6,402	35,246	88,019	14,394
	0.30-0.39.....	43	1,217	7,172	949	2,059	5,357	20,820	41,342	43,765
	0.40-0.49.....	44	476	2,573	416	885	2,226	5,595	7,360	5,503
	0.50-0.59.....	27	806	3,832	753	1,718	3,542	6,715	22,753	201
	0.60-0.69.....	23	179	814	151	323	755	1,213	1,989	4,360
	0.70-0.79.....	8	94	334	84	170	298	455	940	183
	0.80-0.89.....	11	124	636	101	200	490	764	1,496	115
	0.90-0.99.....	5	50	236	43	91	203	254	346	109
	1.00 and over.....	61	582	2,762	454	837	2,057	1,934	12,401	9,273
	Undistributed <sup>2</sup> .....	252	549	3,033	328	543	1,457	( <sup>3</sup> )	10,336	11,415
1099	Metallic ores, nec, total.....	66	237	1,063	187	345	852	1,847	3,018	699
	0.10-0.19.....	1	20	47	14	21	40	237	206	9
	0.20-0.29.....	3								
	0.30-0.39.....	2								
	0.40-0.49.....	1	89	477	76	138	428	1,398	2,401	7
	0.50-0.59.....	4								
	0.60-0.69.....	2								
	0.70-0.79.....	1	23	84	19	15	70	117	47	597
	0.80-0.89.....	2								
	1.00 and over.....	10	71	336	48	104	206	162	264	
	Undistributed <sup>2</sup> .....	40	34	119	30	65	108	( <sup>3</sup> )	100	86
	ANTHRACITE MINING									
1111	Anthracite, total.....	1,163	19,712	79,473	17,266	26,409	67,449	142,198	290,342	12,804
	Less than 0.10.....	21	34	101	31	36	71	2,282	3,513	178
	0.10-0.19.....	25	173	679	138	220	521	4,473	10,155	235
	0.20-0.29.....	54	1,234	4,616	1,145	1,662	4,235	18,674	39,260	4,197
	0.30-0.39.....	69	653	2,578	515	878	1,963	6,826	17,101	577
	0.40-0.49.....	78	919	3,494	786	1,335	3,070	7,335	17,372	999
	0.50-0.59.....	91	2,982	12,806	2,666	4,284	11,139	26,214	47,514	1,439
	0.60-0.69.....	77	4,447	17,441	4,100	6,209	16,160	26,311	44,018	986
	0.70-0.79.....	60	2,758	11,222	2,536	3,864	10,058	15,736	31,407	652
	0.80-0.89.....	50	1,749	6,978	1,566	2,595	6,223	8,229	14,966	2,348
	0.90-0.99.....	20	1,921	7,083	1,820	2,316	6,383	7,519	13,078	182
	1.00 and over.....	120	2,134	8,489	1,878	2,864	7,250	6,731	19,654	541
	No employees.....	473	...	...	...	...	...	12,190	31,308	446
	Undistributed <sup>2</sup> .....	25	708	3,986	85	146	376	( <sup>3</sup> )	996	24
1112	Anthracite stripping services and									
1113	Anthracite mining services, nec, total...	85	3,101	13,923	2,781	4,458	11,976	22,291	34,786	3,787
	0.10-0.29.....	6	53	282	49	89	257	1,138	1,452	86
	0.30-0.39.....	12	248	1,141	222	352	975	3,377	4,565	50
	0.40-0.49.....	8	231	832	215	286	733	1,829	2,221	1,450
	0.50-0.59.....	17	776	3,917	700	1,218	3,339	6,844	9,697	1,205
	0.60-0.69.....	8	386	1,428	322	460	1,139	2,234	3,066	242
	0.70-0.79.....	9	378	1,589	347	624	1,444	2,134	3,994	252
	0.80-0.89.....	6	517	2,466	468	752	2,127	2,881	5,016	163
	0.90-0.99.....	6	260	1,197	235	375	1,083	1,239	2,948	261
	1.00 and over.....	11								
	No employees and undistributed <sup>2</sup> .....	2	252	1,071	223	302	879	615	1,827	78
1211	Bituminous coal, total.....	6,715	185,676	902,759	161,711	264,308	751,584	1,585,541	2,390,677	183,967
	Less than 0.10.....	74	499	1,600	435	505	1,302	19,575	7,407	21,807
	0.10-0.19.....	217	1,579	6,671	1,364	2,162	5,570	42,609	76,434	10,914
	0.20-0.29.....	430	5,002	23,873	4,469	7,416	20,720	95,623	161,427	11,748
	0.30-0.39.....	684	14,472	73,598	12,938	21,751	64,906	207,960	301,897	20,776
	0.40-0.49.....	812	30,998	160,928	27,932	47,540	139,920	352,963	499,763	29,283
	0.50-0.59.....	967	36,619	179,458	32,826	53,876	156,002	327,086	455,781	30,396
	0.60-0.69.....	794	36,320	175,596	32,686	54,547	151,518	273,417	379,030	20,149
	0.70-0.79.....	549	21,007	98,479	19,165	30,999	87,824	133,049	199,805	13,534
	0.80-0.89.....	395	11,044	47,078	9,969	15,294	41,886	55,883	97,808	3,736
	0.90-0.99.....	189	7,778	34,392	7,029	10,672	30,009	36,550	58,638	2,681
	1.00 and over.....	960	13,432	57,331	11,853	18,114	48,811	40,238	131,933	13,978
	Undistributed <sup>2</sup> .....	644	6,926	43,755	1,045	1,432	3,116	588	20,754	4,965
1212	Lignite, total.....	58	510	2,693	437	844	2,261	9,309	11,035	1,432
	Less than 0.10.....	2								
	0.10-0.19.....	7	41	138	35	50	113	800	821	158
	0.20-0.29.....	7								
	0.30-0.39.....	6	310	1,835	262	516	1,527	7,111	8,291	1,029
	0.40-0.49.....	3	66	328	58	107	230	729	911	31
	0.50-0.59.....	6	54	235	47	107	202	434	660	209
	0.60-0.69.....	4	13	49	13	26	49	76	106	2
	0.80-0.89.....	1								
	0.90-0.99.....	1	25	101	21	37	87	91	138	...
	1.00 and over.....	5								
	Undistributed <sup>2</sup> .....	16	1	7	1	1	3	68	108	3

See footnotes at end of table.



Table 3.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining: 1958—Continued

Ind. code	Industry and ratio of payroll to value added in mining <sup>1</sup>	Estab-lish-ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
ANTHRACITE MINING—Continued										
1213	Coal stripping services, nec, total.....	137	1,300	6,373	1,180	2,106	5,615	13,409	19,162	2,600
	Less than 0.10.....	1								
	0.10-0.19.....	9	44	149	42	80	144	959	1,157	174
	0.20-0.29.....	10	68	301	66	157	265	1,208	1,355	164
	0.30-0.39.....	17	182	933	173	362	880	2,756	3,379	609
	0.40-0.49.....	19	192	1,001	178	306	885	2,173	2,775	283
	0.50-0.59.....	25	337	1,496	297	468	1,300	2,815	4,204	529
	0.60-0.69.....	13	171	908	150	250	715	1,385	1,960	195
	0.70-0.79.....	3	41	222	38	64	210	293	630	24
	0.80-0.89.....	5	40	254	34	79	203	307	741	436
	0.90-0.99.....	3	69	326	55	115	269	356	742	52
	1.00 and over.....	7	121	641	113	177	607	490	1,103	34
	Undistributed <sup>2</sup> .....	25	35	142	34	48	137	667	1,116	100
1214	Coal mining services, nec, total.....	20	220	959	205	441	904	1,705	2,487	196
	0.10-0.19.....	1								
	0.30-0.39.....	3	22	84	22	54	84	275	353	51
	0.40-0.49.....	3								
	0.50-0.59.....	1	44	196	42	118	195	396	521	107
	0.60-0.69.....	4								
	0.70-0.79.....	1	147	676	136	267	623	978	1,452	36
	Undistributed <sup>2</sup> .....	7	7	3	5	2	2	56	161	2
OIL AND GAS EXTRACTION										
1311	Crude petroleum and natural gas, total....	11,993	180,040	1,042,186	102,445	200,930	497,571	7,339,922	8,385,906	1,943,493
	Less than 0.10.....	2,113	52,354	314,288	33,263	66,810	182,187	4,732,560	5,064,425	1,037,798
	0.10-0.19.....	2,218	45,802	260,628	29,645	57,970	148,797	1,902,135	2,205,305	521,559
	0.20-0.29.....	1,274	19,118	100,421	13,518	26,713	62,195	416,989	527,692	142,863
	0.30-0.39.....	810	12,717	62,415	8,255	16,007	34,231	178,863	221,916	69,517
	0.40-0.49.....	441	4,289	19,899	3,250	6,392	13,264	44,059	71,933	15,477
	0.50-0.59.....	545	4,515	21,633	2,496	4,579	8,840	39,854	51,258	24,007
	0.60-0.69.....	271	1,889	7,522	1,493	2,819	5,290	11,505	19,728	4,302
	0.70-0.79.....	129	1,551	7,293	1,143	2,090	4,583	9,688	15,560	5,103
	0.80-0.89.....	119	2,122	9,752	1,480	3,249	6,639	11,366	19,651	9,385
	0.90-0.99.....	43	764	4,203	546	1,143	2,616	4,333	7,883	4,133
	1.00 and over.....	1,156	5,680	28,240	3,582	6,298	13,632	14,212	45,517	21,797
	Undistributed <sup>2</sup> .....	2,874	29,239	205,892	3,774	6,860	15,297	( <sup>3</sup> )	135,038	87,552
	Crude petroleum subindustry, total.....	10,603	164,723	965,858	92,358	181,246	452,947	6,823,328	7,809,898	1,707,233
	Less than 0.10.....	1,902	49,776	300,112	31,543	63,343	173,349	4,440,160	4,761,384	950,004
	0.10-0.19.....	2,063	43,047	246,023	27,967	54,661	141,147	1,794,310	2,087,734	486,839
	0.20-0.29.....	1,150	15,880	82,867	11,303	22,089	51,178	345,430	442,497	86,221
	0.30-0.39.....	716	10,234	51,744	6,501	12,692	27,137	147,224	186,815	42,662
	0.40-0.49.....	396	3,680	16,976	2,763	5,384	11,089	37,498	63,396	12,712
	0.50-0.59.....	476	4,183	20,136	2,272	4,190	8,144	37,161	48,649	17,895
	0.60-0.69.....	230	1,548	6,521	1,213	2,293	4,555	9,983	18,173	3,655
	0.70-0.79.....	116	1,089	5,021	800	1,430	2,966	6,630	12,193	3,065
	0.80-0.89.....	102	1,751	8,131	1,362	3,011	6,120	9,487	17,569	6,679
	0.90-0.99.....	39	696	3,869	486	1,043	2,330	3,981	7,456	3,632
	1.00 and over.....	911	4,962	25,921	3,044	5,465	12,185	13,164	43,817	20,833
	Undistributed <sup>2</sup> .....	2,502	27,877	198,537	3,104	5,645	12,747	( <sup>3</sup> )	120,215	73,036
	Natural gas subindustry, total.....	1,390	15,317	76,328	10,087	19,684	44,624	516,594	576,008	236,260
	Less than 0.10.....	211	2,578	14,176	1,720	3,467	8,838	292,400	303,041	87,794
	0.10-0.19.....	155	2,755	14,605	1,678	3,309	7,650	107,825	117,571	34,720
	0.20-0.29.....	124	3,238	17,554	2,215	4,624	11,017	71,559	85,195	56,642
	0.30-0.39.....	94	2,483	10,671	1,754	3,315	7,094	31,639	35,101	26,855
	0.40-0.49.....	45	609	2,923	487	1,008	2,175	6,561	8,537	2,765
	0.50-0.59.....	69	332	1,497	224	389	696	2,693	2,609	6,112
	0.60-0.69.....	41	341	1,001	280	526	735	1,522	1,555	647
	0.70-0.79.....	13	462	2,272	343	660	1,617	3,058	3,367	2,038
	0.80-0.89.....	17	371	1,621	118	238	519	1,879	2,082	2,706
	0.90-0.99.....	4	68	334	60	100	286	352	427	501
	1.00 and over.....	245	718	2,319	538	833	1,447	1,048	1,700	964
	Undistributed <sup>2</sup> .....	372	1,362	7,355	670	1,215	2,550	( <sup>3</sup> )	14,823	14,516
1321	Natural gas liquids, total.....	593	16,514	96,319	13,445	26,947	75,739	587,580	1,625,098	94,930
	Less than 0.10.....	82	2,615	15,020	2,248	4,499	12,703	251,978	647,714	22,443
	0.10-0.19.....	135	5,065	29,700	4,377	8,740	25,049	209,262	510,681	28,569
	0.20-0.29.....	102	2,871	16,673	2,465	4,971	13,842	69,125	195,455	9,251
	0.30-0.39.....	69	1,855	10,645	1,608	3,172	8,986	30,895	135,714	12,623
	0.40-0.49.....	46	1,053	5,940	929	1,851	5,086	13,700	43,572	7,327
	0.50-0.59.....	24	348	2,100	312	653	1,737	3,822	19,960	3,587
	0.60-0.69.....	19	273	1,508	216	463	1,146	2,363	13,603	157
	0.70-0.79.....	14	194	1,040	179	396	935	1,384	9,668	5,163
	0.80-0.89.....	13	389	2,388	346	672	2,002	2,886	9,991	54
	0.90-0.99.....	12	191	1,049	170	344	909	1,119	4,726	315
	1.00 and over.....	42	520	2,975	451	882	2,517	1,968	20,646	1,270
	Undistributed <sup>2</sup> .....	35	1,140	7,281	144	304	827	( <sup>3</sup> )	13,368	4,171

See footnotes at end of table.

Table 3.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining: 1958—Continued

Ind. code	Industry and ratio of payroll to value added in mining <sup>1</sup>	Estab-lish-ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
ANTHRACITE MINING—Continued										
1381	Drilling oil and gas wells, total.....	3,064	59,411	289,243	52,274	109,470	239,328	587,440	904,939	102,018
	Less than 0.10.....	21	118	207	103	115	174	2,757	3,732	516
	0.10-0.19.....	74	757	2,981	705	1,174	2,758	17,871	21,163	3,615
	0.20-0.29.....	267	4,060	19,467	3,710	7,572	16,934	75,116	91,476	16,331
	0.30-0.39.....	456	7,685	33,161	6,967	13,804	28,877	95,710	126,048	12,401
	0.40-0.49.....	602	13,481	67,516	11,968	25,637	56,311	151,670	217,471	23,688
	0.50-0.59.....	554	12,539	63,069	11,097	23,720	52,384	114,656	175,883	15,013
	0.60-0.69.....	346	8,211	41,572	7,020	15,350	33,455	64,249	114,643	7,989
	0.70-0.79.....	188	4,832	25,002	4,194	9,400	20,433	33,792	66,952	10,097
	0.80-0.89.....	114	2,892	13,989	2,514	5,258	11,486	16,620	37,479	3,838
	0.90-0.99.....	53	1,144	4,792	994	1,782	3,829	5,097	12,325	2,569
	1.00 and over.....	240	2,945	14,035	2,486	4,858	11,025	10,573	31,837	4,326
	Undistributed <sup>2</sup> .....	149	747	3,452	516	800	1,662	( <sup>3</sup> )	5,930	1,635
1382	Oil and gas exploration services, total...	347	9,557	43,649	7,559	16,695	31,115	64,353	87,215	7,082
	Less than 0.10.....	9	11	25	9	10	19	397	459	15
	0.10-0.19.....	8	13	60	13	22	59	357	427	16
	0.20-0.29.....	23	76	280	73	140	260	1,136	1,362	54
	0.30-0.39.....	45	460	2,140	407	935	1,897	5,838	6,868	197
	0.40-0.49.....	71	1,019	4,698	911	2,241	4,054	10,331	13,588	689
	0.50-0.59.....	49	1,150	5,158	923	2,217	3,850	9,379	11,832	1,232
	0.60-0.69.....	39	2,293	9,152	1,744	3,271	6,152	14,439	19,605	1,099
	0.70-0.79.....	19	764	3,882	689	1,619	3,315	5,141	7,094	649
	0.80-0.89.....	18	1,209	5,716	947	2,121	3,937	6,665	8,567	1,467
	0.90-0.99.....	13	1,149	5,871	739	1,926	3,170	6,136	9,742	835
	1.00 and over.....	35	1,282	5,851	1,101	2,188	4,389	4,409	7,407	810
	Undistributed <sup>2</sup> .....	18	131	816	3	5	13	125	264	19
1389	Oil and gas field services, nec, total....	2,504	47,278	228,023	38,212	86,060	166,926	455,994	633,729	42,212
	Less than 0.10.....	30	121	109	111	65	105	1,757	2,132	54
	0.10-0.19.....	116	371	1,148	355	715	1,121	6,962	9,192	909
	0.20-0.29.....	244	800	2,699	729	1,350	2,448	10,570	13,652	881
	0.30-0.39.....	372	7,981	44,576	6,637	16,280	32,398	122,637	171,536	11,191
	0.40-0.49.....	459	10,504	50,398	7,792	16,428	33,577	117,515	135,426	7,312
	0.50-0.59.....	462	11,366	51,816	9,413	20,948	39,202	94,513	118,474	7,526
	0.60-0.69.....	294	8,661	42,526	7,312	18,031	34,138	66,244	119,765	10,405
	0.70-0.79.....	119	3,213	15,584	2,678	5,820	11,956	20,932	38,003	3,011
	0.80-0.89.....	75	1,253	4,724	1,132	2,220	4,161	5,613	8,887	272
	0.90-0.99.....	35	964	4,448	854	1,854	3,685	4,751	7,500	279
	1.00 and over.....	164	1,280	4,665	1,161	2,270	4,007	3,716	7,926	308
	Undistributed <sup>2</sup> .....	134	764	5,330	38	79	128	784	1,236	64
NONMETALLIC MINERALS MINING										
1411	Dimension stone:									
	Dimension limestone subindustry, total..	68	583	2,120	491	879	1,592	3,741	4,174	502
	Less than 0.10.....	2	15	16	10	18	15	173	126	73
	0.10-0.19.....	3								
	0.20-0.29.....	9	21	54	21	35	54	216	223	104
	0.30-0.39.....	8	60	245	54	113	214	681	742	113
	0.40-0.49.....	6	166	569	156	309	519	1,195	1,373	94
	0.50-0.59.....	8	143	511	131	214	462	895	976	77
	0.60-0.69.....	4	52	118	38	50	81	170	202	(D)
	0.70-0.79.....	4	67							
	0.80-0.89.....	2								
	1.00 and over.....	8	25	85	22	38	72	67	117	...
	Undistributed <sup>2</sup> .....	14	34	326	5	7	8	90	108	22
	Dimension granite subindustry, total....	76	740	2,288	681	1,277	2,046	4,085	5,577	217
	0.10-0.19.....	5	43	107	43	72	107	627	697	...
	0.20-0.29.....	6	20	64	18	35	60	249	272	15
	0.30-0.39.....	6	45	140	41	80	129	400	481	34
	0.40-0.49.....	11	94	277	88	171	256	616	801	36
	0.50-0.59.....	5	23	46	23	28	45	80	97	...
	0.60-0.69.....	11	143	415	124	237	348	640	828	25
	0.70-0.79.....	6	211	769	197	374	675	988	1,495	70
	0.80-0.89.....	5	61	191	53	107	160	237	406	13
	0.90-0.99.....	5	29	82	27	50	76	89	195	7
	1.00 and over.....	9	66	183	63	114	178	116	242	2
	Undistributed <sup>2</sup> .....	7	5	14	4	9	12	43	63	15

See footnotes at end of table.



Table 3.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining: 1958—Continued

Ind. code	Industry and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
	NONMETALLIC MINERALS MINING—Continued									
	Dimension stone, nec, subindustry, total	191	983	2,713	883	1,534	2,429	5,250	6,113	422
	Less than 0.10.....	3	4	5	4	4	5	88	59	30
	0.10-0.19.....	9	30	59	28	28	57	411	555	41
	0.20-0.29.....	16	73	206	63	96	175	814	959	94
	0.30-0.39.....	23	133	357	109	192	310	1,019	1,020	118
	0.40-0.49.....	16	75	158	59	103	134	347	425	21
	0.50-0.59.....	23	135	395	124	236	361	725	805	48
	0.60-0.69.....	11	127	297	121	191	279	459	510	9
	0.70-0.79.....	8	146	463	134	246	399	610	755	6
	0.80-0.89.....	11	75	233	64	112	193	279	333	2
	0.90-0.99.....	3	52	148	52	89	148	155	181	6
	1.00 and over.....	20	89	271	83	165	252	151	241	12
	Undistributed <sup>2</sup> .....	48	44	121	42	72	116	192	270	95
1421	Crushed and broken stone:									
	Crushed and broken limestone sub-industry, total.....	1,458	31,408	143,358	26,372	57,112	111,255	334,368	459,037	54,334
	Less than 0.10.....	21	59	130	55	118	122	2,011	1,627	442
	0.10-0.19.....	90	1,410	5,961	1,255	2,703	5,128	35,423	42,012	4,587
	0.20-0.29.....	224	3,768	16,264	3,277	7,098	13,791	65,269	80,280	11,547
	0.30-0.39.....	269	5,913	26,565	5,159	11,099	21,589	75,984	100,602	11,234
	0.40-0.49.....	238	6,935	31,061	6,018	13,040	25,638	70,573	95,580	8,405
	0.50-0.59.....	189	4,900	22,471	4,108	8,907	17,739	40,867	57,623	6,776
	0.60-0.69.....	105	2,695	13,004	2,262	4,929	10,103	20,389	33,829	3,411
	0.70-0.79.....	76	2,143	10,096	1,821	3,932	7,980	13,597	23,868	2,584
	0.80-0.89.....	43	914	4,234	763	1,656	3,152	4,908	8,702	2,905
	0.90-0.99.....	12	262	1,034	228	500	839	1,112	2,237	421
	1.00 and over.....	108	1,496	5,672	1,305	2,872	4,752	3,787	10,711	1,378
	Undistributed <sup>2</sup> .....	83	913	6,866	121	258	422	448	1,966	644
	Crushed and broken granite subindustry, total.....	121	3,309	12,975	2,906	6,442	10,771	33,493	49,596	4,703
	Less than 0.10.....	3	28	94	24	43	78	1,390	1,965	51
	0.10-0.19.....	6	119	379	109	260	353	2,598	3,511	229
	0.20-0.29.....	28	658	2,685	565	1,271	2,268	10,849	14,136	1,482
	0.30-0.39.....	20	752	2,707	673	1,473	2,347	7,931	11,085	704
	0.40-0.49.....	13	475	1,691	444	990	1,559	3,765	6,279	383
	0.50-0.59.....	9	296	1,252	281	747	1,146	2,233	3,743	300
	0.60-0.69.....	10	350	1,245	297	553	959	1,914	3,071	240
	0.70-0.79.....	11	314	1,239	278	608	971	1,677	3,070	823
	0.80-0.89.....	5	35	133	34	57	131	158	273	5
	0.90-0.99.....	3	59	248	50	102	201	261	854	175
	1.00 and over.....	7	163	838	141	314	719	730	1,563	262
	Undistributed <sup>2</sup> .....	6	60	464	10	24	39	(3)	46	49
	Crushed and broken stone, nec, sub-industry, total.....	378	6,687	32,068	5,587	12,078	25,240	77,927	107,443	9,683
	Less than 0.10.....	11	28	112	20	34	66	2,382	2,758	529
	0.10-0.19.....	23	212	985	190	383	862	6,067	6,463	1,693
	0.20-0.29.....	56	1,049	4,943	939	2,113	4,252	19,226	25,673	2,458
	0.30-0.39.....	77	1,827	8,534	1,567	3,118	7,084	24,371	32,745	2,302
	0.40-0.49.....	40	833	4,523	734	2,117	3,833	9,972	14,031	815
	0.50-0.59.....	55	703	3,201	618	1,291	2,702	5,897	8,851	553
	0.60-0.69.....	24	359	1,659	299	587	1,313	2,518	4,254	372
	0.70-0.79.....	17	805	3,438	688	1,331	2,795	4,538	6,423	379
	0.80-0.89.....	11	185	1,026	155	344	779	1,243	2,042	247
	0.90-0.99.....	12	178	750	161	328	603	798	1,439	88
	1.00 and over.....	30	251	1,100	196	386	881	865	2,524	169
	Undistributed <sup>2</sup> .....	22	257	1,797	20	46	70	50	240	78
1441	Sand and gravel:									
	Common sand and gravel subindustry, total.....	3,534	34,164	159,384	28,268	61,733	124,802	401,700	516,090	52,818
	Less than 0.10.....	99	276	683	247	330	612	7,762	9,103	2,229
	0.10-0.19.....	297	1,986	9,253	1,773	3,566	8,144	59,863	65,515	6,519
	0.20-0.29.....	612	5,832	25,531	5,086	10,898	21,919	101,205	117,488	9,937
	0.30-0.39.....	538	5,921	26,503	5,203	11,321	22,696	75,958	95,325	8,349
	0.40-0.49.....	442	5,461	26,567	4,609	10,312	21,126	59,575	78,533	7,699
	0.50-0.59.....	370	4,558	21,894	3,771	8,322	17,325	40,201	57,846	6,196
	0.60-0.69.....	209	2,675	12,719	2,157	4,944	9,543	19,703	31,874	3,311
	0.70-0.79.....	153	2,299	11,087	1,822	3,969	8,281	14,975	21,525	2,164
	0.80-0.89.....	77	786	3,787	623	1,297	2,755	4,461	6,571	684
	0.90-0.99.....	50	863	3,735	683	1,620	2,696	3,966	6,190	696
	1.00 and over.....	268	2,310	10,551	1,807	3,993	7,687	7,880	17,307	2,559
	Undistributed <sup>2</sup> .....	419	1,197	7,074	487	1,161	2,018	6,151	8,813	2,475

See footnotes at end of table.

Table 3.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining: 1958—Continued

Ind. code	Industry and ratio of payroll to value added in mining <sup>1</sup>	Estab-lish-ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
NONMETALLIC MINERALS MINING—Continued										
	Sand and gravel—Continued									
	Glass sand subindustry, total.....	45	1,628	7,497	1,339	2,833	5,730	20,672	28,343	2,703
	0.10-0.19.....	5	17	96	13	33	71	612	517	607
	0.20-0.29.....	9	234	1,241	197	445	998	4,942	7,468	302
	0.30-0.39.....	12	724	3,497	575	1,190	2,559	10,426	13,634	1,194
	0.40-0.49.....	6	145	555	135	340	508	1,197	1,665	126
	0.50-0.69.....	7	352	1,624	284	571	1,192	2,867	4,049	381
	0.70-0.79.....	4	156	484	135	254	402	628	1,010	93
	1.00 and over.....	1								
	Undistributed <sup>2</sup> .....	1								
	Molding sand subindustry, total.....	124	1,256	5,445	1,023	1,914	3,909	12,096	16,373	1,041
	Less than 0.20.....	10	58	219	53	119	203	1,759	1,935	169
	0.20-0.29.....	19	97	328	86	140	283	1,481	1,861	61
	0.30-0.39.....	18	371	1,506	336	583	1,236	4,303	5,243	283
	0.40-0.49.....	16	127	532	112	209	425	1,221	1,666	71
	0.50-0.59.....	11	190	799	171	354	692	1,418	2,685	153
	0.60-0.69.....	8	205	850	158	285	593	1,266	1,844	229
	0.70-0.79.....	6	45	166	26	57	100	231	350	10
	0.80-0.89.....	7	32	131	24	45	86	152	200	10
	1.00 and over.....	14	47	281	40	95	229	196	416	32
	Undistributed <sup>2</sup> .....	15	84	633	17	27	62	69	173	23
1452	Bentonite, total.....	41	688	2,885	543	1,140	1,996	12,220	16,843	1,083
	Less than 0.20.....	10	252	969	209	460	757	7,325	9,597	829
	0.20-0.29.....	10	187	757	153	310	557	3,076	4,149	95
	0.30-0.49.....	7	93	365	83	162	333	1,046	1,672	67
	0.50 and over.....	8	123	510	98	208	349	634	1,145	78
	Undistributed <sup>2</sup> .....	6	33	284	...	...	...	139	280	14
1453	Fire clay, total.....	182	1,473	6,020	1,279	2,214	4,989	14,540	18,606	2,107
	Less than 0.10.....	6	18	70	12	21	40	1,192	1,275	52
	0.10-0.19.....	18	89	353	82	144	318	2,584	2,860	122
	0.20-0.29.....	30	199	697	183	325	634	2,783	3,323	248
	0.30-0.39.....	19	157	546	138	227	463	1,493	1,776	938
	0.40-0.49.....	15	156	759	119	220	551	1,724	1,978	354
	0.50-0.59.....	14	142	582	122	220	471	1,094	1,398	58
	0.60-0.69.....	17	141	641	112	175	453	1,009	1,318	94
	0.70-0.79.....	7	134	526	126	209	506	712	1,203	32
	0.80-0.99.....	10	288	1,242	260	453	1,086	1,389	2,085	27
	1.00 and over.....	19	105	418	90	154	330	284	416	59
	Undistributed <sup>2</sup> .....	27	44	186	35	66	137	276	974	123
1454	Fuller's earth, total.....	14	652	2,399	527	1,145	1,673	5,955	8,692	579
	0.10-0.29.....	3	32	119	27	68	99	726	1,027	59
	0.30-0.39.....	4	388	1,512	313	728	1,092	3,970	5,780	416
	0.40-0.49.....	2	232	768	187	349	482	1,259	1,885	104
	0.50-0.59.....	2								
	0.60-0.79.....	2								
	Undistributed <sup>2</sup> .....	1								
1455	Kaolin and ball clay, total.....	53	3,394	14,014	2,722	5,675	9,719	30,990	42,434	4,151
	Less than 0.20.....	9	145	730	90	189	309	3,002	3,147	862
	0.20-0.29.....	7	145	473	132	309	420	1,825	2,518	188
	0.30-0.39.....	15	984	4,111	713	1,518	2,389	9,863	12,849	1,249
	0.40-0.49.....	6	1,159	5,130	999	2,061	3,931	11,079	15,495	877
	0.50-0.59.....	5	183	615	164	322	482	1,152	1,528	218
	0.60-0.79.....	6	753	2,859	606	1,244	2,148	3,960	6,652	749
	0.80-0.89.....	1	25	96	18	32	40	109	245	8
	1.00 and over.....	1								
	Undistributed <sup>2</sup> .....	3								
1456	Feldspar, total.....	74	567	1,919	496	1,028	1,515	4,531	6,889	1,306
	0.10-0.39.....	8	223	781	194	400	607	2,683	3,482	1,165
	0.40-0.49.....	13	30	80	30	51	80	186	236	17
	0.50-0.59.....	13	199	627	177	379	518	1,195	2,299	90
	0.60-0.69.....	5	77	302	60	133	201	441	640	29
	0.80 and over.....	13	36	124	33	61	105	72	178	3
	Undistributed <sup>2</sup> .....	22	2	5	2	4	4	( <sup>3</sup> )	54	2
1457	Magnesite and brucite, total.....	4	337	1,925	267	428	1,386	5,978	7,270	989
	0.10-0.19.....	1	337	1,925	267	428	1,386	5,978	7,270	989
	0.20-0.29.....	1								
	0.30-0.39.....	2								

See footnotes at end of table.



Table 3.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining: 1958—Continued

Ind. code	Industry and ratio of payroll to value added in mining <sup>1</sup>	Estab- lish- ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi- tures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
NONMETALLIC MINERALS MINING—Continued										
1459	Clay and related minerals, nec, total.....	122	1,662	6,995	1,464	3,267	5,602	13,154	22,004	2,982
	Less than 0.20.....	6	12	54	11	23	45	452	426	303
	0.20-0.29.....	12	256	985	227	533	743	3,548	5,097	291
	0.30-0.39.....	15	159	736	137	329	595	2,048	2,998	151
	0.40-0.49.....	13	225	924	206	447	786	2,150	3,262	215
	0.50-0.59.....	14	221	896	198	426	745	1,661	2,679	179
	0.60-0.69.....	6	134	453	121	232	372	709	1,361	77
	0.70-0.99.....	11	219	1,113	187	425	878	1,352	2,465	335
	1.00 and over.....	18	339	1,584	284	660	1,229	1,142	3,179	1,117
	Undistributed <sup>2</sup> .....	27	97	250	93	192	209	92	537	314
1472	Barite, total.....	53	929	3,402	781	1,588	2,698	11,321	13,768	973
	0.10-0.19.....	9	176	579	159	315	504	3,888	4,324	141
	0.20-0.29.....	7	281	993	246	465	781	4,286	5,270	185
	0.30-0.49.....	12	192	705	174	366	604	1,624	2,044	374
	0.50-0.69.....	6	220	925	154	350	653	1,418	1,968	156
	0.70 and over.....	11	42	164	31	73	123	102	144	60
	Undistributed <sup>2</sup> .....	8	18	36	17	19	33	3	18	57
1473	Fluorspar, total.....	55	1,235	5,616	1,044	2,105	4,336	12,653	19,977	1,566
	Less than 0.10.....	5	30	155	26	44	105	2,141	2,440	151
	0.10-0.29.....	4	32	138	30	63	118	720	1,872	37
	0.30-0.39.....	8	213	977	191	401	811	2,786	3,629	244
	0.40-0.49.....	7	243	1,223	224	511	1,075	2,827	4,508	591
	0.50-0.59.....	7	301	1,305	269	524	1,111	2,390	3,584	295
	0.60 and over.....	9	362	1,502	277	496	1,000	1,776	2,758	196
	Undistributed <sup>2</sup> .....	15	54	316	27	66	116	13	1,186	52
1474	Potash, soda, borate minerals, total.....	21	6,661	41,067	4,590	9,212	26,746	111,082	141,115	11,393
	0.10-0.29.....	6	1,430	9,362	1,131	2,400	6,971	39,221	43,886	5,464
	0.30-0.39.....	6	2,512	14,543	2,062	3,826	11,090	41,499	53,216	2,336
	0.40-0.59.....	5	2,174	12,981	1,391	2,974	8,651	30,221	44,013	3,132
	0.60 and over.....	2	545	4,181	6	12	34	141	...	461
	Undistributed <sup>2</sup> .....	2								
1475	Phosphate rock, total.....	65	5,393	27,210	3,955	8,255	17,185	64,375	132,094	5,702
	Less than 0.20.....	8	392	1,818	351	709	1,544	12,614	19,051	532
	0.20-0.29.....	12	1,136	5,481	891	1,901	3,973	22,198	33,531	477
	0.30-0.39.....	10	1,235	5,510	1,050	2,149	4,568	16,302	31,685	2,471
	0.40-0.49.....	8	324	1,747	271	571	1,303	4,007	6,826	380
	0.50-0.59.....	5	95	342	92	171	323	605	1,104	72
	0.60-0.69.....	7	272	1,044	237	510	802	1,646	2,308	66
	0.70-0.79.....	6	1,939	11,268	1,063	2,244	4,672	7,003	37,589	1,704
	0.80-0.89.....	1								
	1.00 and over.....	5								
	Undistributed <sup>2</sup> .....	3								
1476	Rock salt, total.....	22	1,984	10,996	1,602	3,508	7,937	34,073	41,813	2,607
	Less than 0.30.....	7	1,032	4,997	937	2,014	4,094	22,203	27,208	2,154
	0.30-0.39.....	4	351	2,220	335	626	2,070	7,332	8,878	247
	0.40-0.69.....	5	347	2,068	310	839	1,724	4,287	5,221	201
	0.70-0.79.....	3	254	1,711	20	29	49	251	506	5
	Undistributed <sup>2</sup> .....	3								
1477	Sulfur, total.....	24	3,677	24,570	2,303	4,644	13,267	94,063	106,202	16,282
	Less than 0.20.....	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	0.20-0.29.....	6	685	4,176	537	1,106	3,055	17,582	20,397	(D)
	0.40-0.49.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	0.50-0.59.....	2								
	1.00 and over.....	3								
	Undistributed <sup>2</sup> .....	6								
1479	Chemical-fertilizer mining, nec, total.....	31	677	3,115	557	1,093	2,358	7,586	9,643	607
	Less than 0.20.....	6	114	698	89	180	505	3,850	4,622	22
	0.20-0.29.....	4								
	0.30-0.59.....	4	252	1,190	198	408	851	2,364	3,164	339
	0.60-0.69.....	4								
	0.70-0.79.....	3	303	1,207	263	495	982	1,393	1,854	221
	0.80-0.99.....	2								
	1.00 and over.....	3								
	Undistributed <sup>2</sup> .....	5	8	20	7	10	20	( <sup>3</sup> )	3	25

See footnotes at end of table.

Table 3.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining: 1958—Continued

Ind. code	Industry and ratio of payroll to value added in mining <sup>1</sup>	Estab-lish-ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
NONMETALLIC MINERALS MINING—Continued										
1481	Nonmetallic minerals stripping, total.....	47	626	1,907	588	1,069	1,636	3,780	4,787	591
	Less than 0.20.....	4	15	29	12	19	28	193	223	22
	0.20-0.29.....	11	46	137	45	79	133	523	577	200
	0.30-0.39.....	12	116	500	98	150	338	1,419	1,900	159
	0.40-0.49.....	5	41	211	37	80	161	468	657	45
	0.50-0.59.....	6	50	186	44	85	153	322	425	37
	0.60 and over.....	6	352	813	348	642	798	849	996	126
	Undistributed <sup>2</sup> .....	3	6	31	4	14	25	6	9	2
1482	Nonmetallic services, nec, total.....	28	483	1,615	449	824	1,402	2,437	3,147	257
	0.10-0.29.....	5	21	86	19	37	64	385	442	99
	0.30-0.59.....	9	58	152	52	87	136	311	453	32
	0.60-0.89.....	10	387	1,490	364	672	1,145	1,652	1,963	113
	1.00 and over.....	2	17	87	14	28	57	89	289	13
	Undistributed <sup>2</sup> .....	2								
1492	Gypsum, total.....	32	406	1,805	354	776	1,481	5,958	7,048	820
	0.10-0.29.....	11	211	1,025	181	421	809	4,684	5,327	332
	0.30-0.59.....	6	82	283	76	160	239	635	755	154
	0.60-0.79.....	5	84	394	77	151	345	556	814	330
	0.80 and over.....	4	21	87	17	30	76	77	121	...
	Undistributed <sup>2</sup> .....	6	8	16	3	14	12	6	31	4
1493	Mica, total.....	149	727	2,007	649	1,204	1,709	4,974	6,221	1,171
	Less than 0.10.....	6	14	19	14	14	19	263	174	130
	0.10-0.19.....	9	56	151	55	123	148	900	1,044	229
	0.20-0.29.....	18	128	264	119	214	262	1,088	1,120	176
	0.30-0.39.....	15	91	250	82	132	186	746	881	104
	0.40-0.49.....	6	22	52	21	35	49	119	156	22
	0.50-0.59.....	7	93	313	86	146	282	551	698	36
	0.60-0.69.....	7	100	354	88	193	284	486	863	49
	0.70-0.99.....	8	119	391	105	218	305	524	667	239
	1.00 and over.....	10	61	115	42	63	96	44	115	25
	Undistributed <sup>2</sup> .....	63	43	98	37	66	78	253	503	161
1494	Native asphalt and bitumens, total.....	10	464	2,265	367	732	1,398	5,954	8,041	723
	0.10-0.29 and undistributed <sup>2</sup> .....	3	135	735	80	175	260	1,498	1,998	182
	0.30-0.89.....	7	329	1,530	287	557	1,138	4,456	6,043	541
1495	Pumice and pumicite, total.....	64	316	1,103	271	409	907	4,058	5,002	580
	Less than 0.20.....	9	56	207	51	86	184	1,607	1,833	108
	0.20-0.29.....	9	90	240	71	75	156	1,000	979	179
	0.30-0.39.....	8	49	185	44	72	163	533	669	77
	0.40-0.59.....	9	78	326	66	111	269	674	1,012	98
	0.60-0.99.....	6	17	70	16	29	66	86	214	60
	1.00 and over.....	4	19	44	16	26	40	39	75	10
	Undistributed <sup>2</sup> .....	19	7	31	7	10	29	119	220	48
1496	Talc, soapstone, pyrophyllite, total.....	64	1,294	5,320	1,123	2,289	4,157	11,755	14,908	898
	Less than 0.30.....	10	199	1,078	159	339	807	3,972	4,383	326
	0.30-0.39.....	10	113	409	97	202	320	1,168	1,558	120
	0.40-0.49.....	5	86	346	75	138	250	826	1,043	57
	0.50-0.59.....	11	533	1,602	505	1,031	1,404	3,066	3,902	227
	0.60-0.99.....	6	288	1,472	241	488	1,152	2,304	3,316	137
	1.00 and over.....	5	58	309	44	86	212	248	354	5
	Undistributed <sup>2</sup> .....	17	17	104	2	5	12	171	352	26
1497	Natural abrasives, except sand, total.....	20	229	1,007	204	408	801	2,648	3,373	149
	0.10-0.29.....	5	52	251	45	81	172	1,456	1,639	43
	0.50-0.69.....	4	118	551	107	237	458	937	1,351	85
	0.70 and over.....	4	57	199	50	88	165	252	355	20
	Undistributed <sup>2</sup> .....	7	2	6	2	2	6	3	28	1
1498	Peat, total.....	81	389	1,282	335	613	974	3,640	4,379	811
	Less than 0.20.....	12	23	32	22	23	30	260	212	108
	0.20-0.29.....	13	87	264	77	161	218	1,016	1,233	329
	0.30-0.39.....	10	105	417	94	199	324	1,269	1,720	157
	0.40-0.49.....	9	33	106	28	57	91	253	255	64
	0.50-0.59.....	11	58	158	52	71	136	286	308	73
	0.60-0.79.....	6	60	238	41	67	113	317	376	49
	0.80 and over.....	7	22	66	20	34	61	65	82	19
	Undistributed <sup>2</sup> .....	13	1	1	1	1	1	174	193	12

See footnotes at end of table.



## MINERAL INDUSTRIES—SUMMARY STATISTICS

Table 3.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining: 1958—Continued

Ind. code	Industry and ratio of payroll to value added in mining <sup>1</sup>	Estab- lish- ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi- tures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
	NONMETALLIC MINERALS MINING—Continued									
1499	Nonmetallic minerals, nec, total.....	55	1,791	8,610	1,344	3,018	5,950	23,368	31,611	4,188
	Less than 0.20.....	5	9	20	8	11	17	125	87	74
	0.20-0.29.....	8	575	3,372	441	987	2,432	13,064	16,893	479
	0.30-0.39.....	9	500	2,201	360	859	1,475	6,269	7,978	1,205
	0.40-0.59.....	8	174	923	138	290	697	1,864	2,725	122
	0.60-0.69.....	7	172	577	154	344	458	934	1,395	163
	0.70-0.99.....	7	174	666	131	215	417	831	1,473	130
	1.00 and over.....	6	148	639	104	295	424	327	1,022	23
	Undistributed <sup>2</sup> .....	5	39	212	8	17	30	( <sup>3</sup> )	38	1,992

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Note that in computing these ratios contract employment serving the establishment is excluded. The cost of contract work expressed as a percent of payroll was: for Metal mining, 27 percent; for Anthracite mining, 43 percent; for Bituminous coal and lignite mining, 8 percent; for Oil and gas extraction, 92 percent; and for Nonmetallic minerals mining, 9 percent.

<sup>2</sup>Represents establishments with zero or negative value added, establishments with no employees and, for number of employees and payroll, includes figures for separately reported central offices and related facilities.

<sup>3</sup>Value added is not shown since the cost of supplies, minerals received for preparation, purchased fuels and electricity, contract work, and purchased machinery installed exceeded the sum of value of shipments and receipts and capital expenditures.

Table 4.—Employment at Central Administrative Offices and Related Facilities in the Mineral Industries, by Industry Group and Industry: 1958 and 1954

(Figures in this table represent central administrative offices at different locations from the establishments managed or served, or at the same location as one of these establishments but not operated as an integral part of it. All figures in this table have been included in the reports for the industries with which they are associated)

Ind. code	Industry group and industry	1958		1954	
		Number of employees	Payroll (\$1,000)	Number of employees	Payroll (\$1,000)
	All mineral industries.....	42,070	307,929	33,671	212,713
10	Metal mining.....	6,221	41,404	4,641	32,949
1011	Iron ores.....	3,712	25,456	1,937	12,592
1021	Copper ores.....	1,601	9,628	1,727	13,054
1031	Lead and zinc ores.....	412	3,126	721	5,479
106	Ferroalloy ores.....	183	1,026	168	1,335
109	Miscellaneous metal ores.....	169	1,131	10	50
1094	Uranium-radium-vanadium ores.....	158	1,009	(NA)	(NA)
11	Anthracite mining.....	609	3,538	1,557	8,183
12	Bituminous coal and lignite mining.....	5,755	40,151	3,077	20,073
13	Oil and gas extraction.....	25,045	187,882	(NA)	(NA)
1311	Crude petroleum and natural gas.....	23,044	174,274	21,719	136,008
	Crude petroleum.....	22,590	171,084	(NA)	(NA)
	Natural gas.....	454	3,190	(NA)	(NA)
138	Oil and gas field services:				
1381	Drilling oil and gas wells.....	162	1,390	(D)	(D)
1382	Oil and gas exploration services.....	125	776	(NA)	(NA)
14	Nonmetallic minerals mining.....	4,440	34,954	(NA)	(NA)
1411	Dimension stone.....	29	318	(NA)	(NA)
1421	Crushed and broken stone.....	1,065	8,520	(NA)	(NA)
	Crushed and broken limestone subindustry.....	781	6,378	117	904
1441	Sand and gravel.....	695	5,203	160	1,493
145	Clay and related minerals:				
1455	Kaolin and ball clay.....	197	1,337	(NA)	(NA)
147	Chemical and fertilizer minerals.....	2,257	18,251	(NA)	(NA)
1474	Potash, soda, borate minerals.....	525	4,022	(NA)	(NA)
149	Miscellaneous minerals, nec.....	131	838	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>Represents the Common sand and gravel subindustry only.

Table 5.—Employment at Central Administrative Offices and Related Facilities in the Mineral Industries, by Division and State: 1958

(Figures in this table represent central administrative offices at different locations from the establishments managed or served, or at the same location as one of these establishments but not operated as an integral part of it. All figures in this table have been included in the reports for the States where they are located)

Division and State	Number of employees	Payroll (\$1,000)	Division and State	Number of employees	Payroll (\$1,000)
United States, total.....	42,070	307,929	South Atlantic.....	2,270	12,872
New England.....	339	2,631	Maryland.....	27	212
Massachusetts.....	288	2,204	Virginia.....	462	2,905
			West Virginia.....	1,592	8,667
			North Carolina.....	94	445
			Florida.....	76	426
Middle Atlantic.....	4,869	33,980	East South Central.....	249	1,995
New York.....	2,029	14,542	Kentucky.....	93	510
New Jersey.....	375	2,431	Tennessee.....	41	242
Pennsylvania.....	2,465	17,007	Alabama.....	115	1,243
			West South Central.....	20,688	150,057
East North Central.....	4,543	36,693	Arkansas.....	179	1,138
Ohio.....	2,474	21,224	Louisiana.....	2,843	20,144
Indiana.....	358	2,342	Oklahoma.....	5,100	36,613
Illinois.....	1,135	9,714	Texas.....	12,566	92,162
Michigan.....	553	3,296	Mountain.....	2,368	17,608
Wisconsin.....	23	117	Montana.....	317	2,002
			Idaho.....	63	611
West North Central.....	4,441	29,574	Wyoming.....	370	2,800
Minnesota.....	3,156	21,355	Colorado.....	912	6,444
Iowa.....	95	817	Arizona.....	327	2,988
Missouri.....	928	5,645	Utah.....	339	2,370
Nebraska.....	23	103	Pacific.....	2,303	22,519
Kansas.....	224	1,535	California.....	2,220	21,718





## TYPE OF OPERATION

5-1



# EMPLOYMENT AND VALUE ADDED PER EMPLOYEE IN THE MINERAL INDUSTRIES IN THE UNITED STATES: 1958

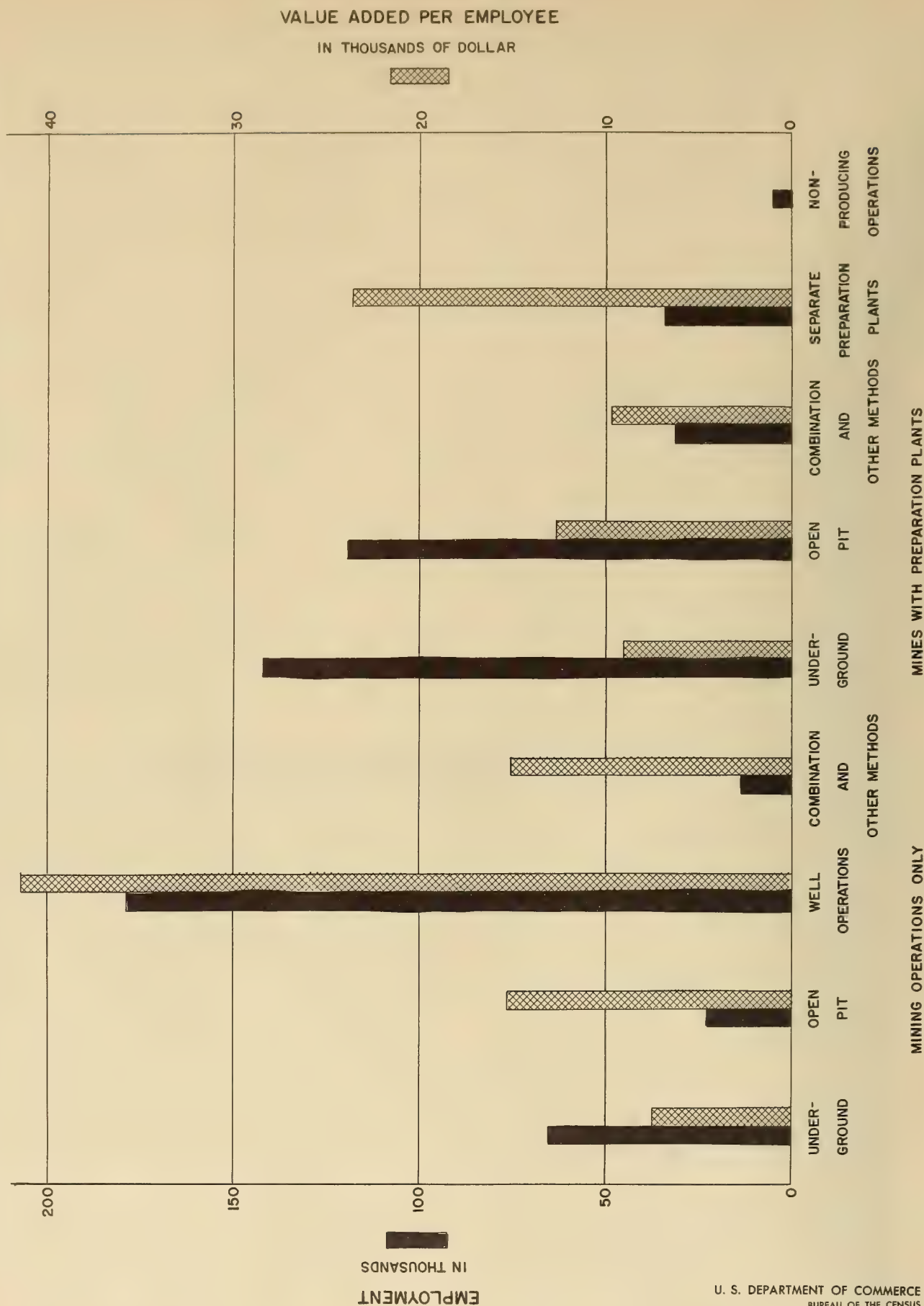


Table 1.—Number of Establishments, 1958 and 1954, and Employment and Value Added, 1958, for the Mineral Industries, Except Service Industries, in the United States, by Type of Operation for Industry Groups and Selected Industries

(For explanation of line and column captions see Introduction)

Industry code, industry group, or industry and item	All types of establishments, total	Producing establishments									Non-producing establishments	
		Total	Mining only				Mines with preparation plants					Separately operated preparation plants
			Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
All mineral industries:												
Number of establishments:												
1958.....	29,891	28,391	20,099	5,485	2,697	11,917	7,253	1,273	5,154	826	1,039	1,500
1954.....	31,458	29,862	21,305	6,828	3,313	11,164	7,581	1,013	5,383	1,185	976	1,596
Number of employees:												
1958.....	608,472	603,932	278,803	64,972	22,648	191,183	291,379	141,776	118,550	31,053	33,750	4,540
Value added in mining:												
1958.....\$1,000..	12,217,223	12,235,778	8,386,568	480,491	346,273	7,559,804	3,055,998	1,266,796	1,491,350	297,852	793,212	( <sup>4</sup> )
BY INDUSTRY: 1958												
10—Metal mining:												
Number of establishments.....	2,138	1,525	1,017	634	358	25	435	141	273	21	73	613
Number of employees....	90,317	(D)	27,462	16,524	7,955	2,983	50,482	25,414	22,746	2,322	(D)	(D)
Value added in mining.....\$1,000..	1,164,465	(D)	385,977	193,320	164,230	28,427	648,650	228,585	372,240	47,825	(D)	(D)
1011—Iron ores:												
Number of establishments.....	242	213	95	36	59	...	110	11	97	2	8	29
Number of employees..	31,576	31,085	11,472	8,456	3,016	...	17,769	4,779	(D)	(D)	1,844	491
Value added in mining.....\$1,000..	500,232	501,815	188,282	87,603	100,679	...	255,929	41,076	(D)	(D)	57,604	( <sup>4</sup> )
1021—Copper ores:												
Number of establishments.....	148	85	52	31	19	2	26	11	14	1	7	63
Number of employees..	27,642	27,304	8,547	2,067	(D)	(D)	14,059	6,255	(D)	(D)	4,698	338
Value added in mining.....\$1,000..	266,485	267,560	(D)	15,881	(D)	(D)	168,545	47,381	(D)	(D)	(D)	( <sup>4</sup> )
1031—Lead and zinc ores:												
Number of establishments.....	288	171	117	102	12	3	45	41	1	3	9	117
Number of employees..	11,227	10,807	2,402	2,392	3	7	8,034	7,848	(D)	(D)	371	420
Value added in mining.....\$1,000..	73,679	74,907	17,174	17,128	33	13	53,639	52,928	(D)	(D)	4,094	( <sup>4</sup> )
Lead ores sub-industry:												
Number of establishments.....	211	115	86	72	11	3	26	24	...	2	3	96
Number of employees	6,883	6,605	1,263	(D)	(D)	7	(D)	5,090	...	(D)	(D)	278
Value added in mining....\$1,000..	48,023	49,153	10,194	(D)	(D)	13	(D)	36,549	...	(D)	(D)	( <sup>4</sup> )
Zinc ores sub-industry:												
Number of establishments.....	77	56	31	30	1	...	19	17	1	1	6	21
Number of employees	4,344	4,202	1,139	(D)	(D)	...	(D)	2,758	(D)	(D)	(D)	142
Value added in mining....\$1,000..	25,656	25,754	6,980	(D)	(D)	...	(D)	16,379	(D)	(D)	(D)	( <sup>4</sup> )
104—Gold and silver ores:												
Number of establishments.....	379	192	106	74	31	1	85	26	55	4	1	187
Number of employees..	3,939	3,576	198	191	(D)	(D)	(D)	(D)	400	134	(D)	363
Value added in mining.....\$1,000..	37,896	37,806	2,899	2,684	(D)	(D)	(D)	(D)	5,145	671	(D)	90
1042—Lode gold:												
Number of establishments.....	244	104	71	51	20	...	32	21	9	2	1	140
Number of employees	2,586	2,330	154	154	...	...	(D)	1,956	82	(D)	(D)	256
Value added in mining....\$1,000..	22,659	22,589	2,144	2,058	86	...	(D)	19,511	331	(D)	(D)	70

See footnotes at end of table.



## MINERAL INDUSTRIES—SUMMARY STATISTICS

Table 1.—Number of Establishments, 1958 and 1954, and Employment and Value Added, 1958, for the Mineral Industries, Except Service Industries, in the United States, by Type of Operation for Industry Groups and Selected Industries—Continued

Industry code, industry group, or industry and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
		Total	Mining only				Mines with preparation plants					Separately operated preparation plants
			Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
BY INDUSTRY: 1958—Continued												
10—Metal mining—Continued												
104—Gold and silver ores—Continued												
1043—Placer gold:												
Number of establishments.....	74	46	...	...	...	...	46	...	46	...	...	28
Number of employees.....	364	318	...	...	...	...	318	...	318	...	...	46
Value added in mining.....\$1,000..	4,873	4,814	...	...	...	...	4,814	...	4,814	...	...	59
1044—Silver ores:												
Number of establishments.....	61	42	35	23	11	1	7	5	...	2	...	19
Number of employees.....	989	928	44	37	(D)	(D)	884	(D)	...	(D)	...	61
Value added in mining.....\$1,000..	10,364	10,403	755	626	(D)	(D)	9,648	(D)	...	(D)	...	( <sup>4</sup> )
1051—Bauxite:												
Number of establishments.....	29	28	20	3	16	1	2	...	2	...	6	1
Number of employees.....	705	(D)	(D)	(D)	250	(D)	(D)	...	(D)	...	(D)	(D)
Value added in mining.....\$1,000..	15,430	(D)	(D)	(D)	4,057	(D)	(D)	...	(D)	...	(D)	(D)
106—Ferroalloy ores:												
Number of establishments.....	294	241	142	31	105	6	83	25	50	8	16	53
Number of employees.....	5,438	5,218	1,005	677	(D)	(D)	(D)	(D)	575	(D)	(D)	220
Value added in mining.....\$1,000..	74,255	74,036	13,872	5,625	(D)	(D)	(D)	(D)	8,709	(D)	(D)	219
1062—Manganese ores:												
Number of establishments.....	186	169	104	24	77	3	55	13	38	4	10	17
Number of employees.....	2,099	2,059	913	667	(D)	(D)	916	295	466	155	230	40
Value added in mining.....\$1,000..	20,014	20,083	7,982	5,381	(D)	(D)	9,549	2,084	6,378	1,087	2,552	( <sup>4</sup> )
1064—Tungsten ores:												
Number of establishments.....	32	8	...	...	...	...	5	2	2	1	3	24
Number of employees.....	638	511	...	...	...	...	(D)	(D)	(D)	(D)	(D)	127
Value added in mining.....\$1,000..	8,164	8,186	...	...	...	...	(D)	(D)	(D)	(D)	(D)	( <sup>4</sup> )
1069—Ferroalloy ores, nec:												
Number of establishments.....	76	64	38	7	28	3	23	10	10	3	3	12
Number of employees.....	2,701	2,648	92	10	(D)	(D)	2,549	2,103	(D)	(D)	7	53
Value added in mining.....\$1,000..	46,077	45,767	5,890	244	(D)	(D)	39,827	32,397	(D)	(D)	50	310
Chromium ores subindustry:												
Number of establishments.....	63	59	37	7	27	3	19	8	9	2	3	4
Number of employees.....	296	292	(D)	10	14	(D)	(D)	230	(D)	(D)	7	4
Value added in mining.....\$1,000..	5,759	5,751	(D)	244	538	(D)	(D)	4,465	(D)	(D)	50	8
Molybdenum, cobalt, and other ores subindustry:												
Number of establishments.....	13	5	1	...	1	...	4	2	1	1	...	8
Number of employees.....	2,405	2,356	(D)	...	(D)	...	(D)	(D)	(D)	(D)	...	49
Value added in mining.....\$1,000..	40,318	40,016	(D)	...	(D)	...	(D)	(D)	(D)	(D)	...	302
109—Miscellaneous metal ores:												
Number of establishments.....	758	595	485	357	116	12	84	27	54	3	26	163
Number of employees.....	9,790	(D)	(D)	(D)	370	252	3,498	1,094	(D)	(D)	2,704	(D)
Value added in mining.....\$1,000..	196,488	(D)	(D)	(D)	9,412	3,673	84,903	22,463	(D)	(D)	35,349	(D)
1092—Mercury ores:												
Number of establishments.....	79	67	4	...	4	...	62	20	40	2	1	12
Number of employees.....	652	630	(D)	...	(D)	...	(D)	412	105	(D)	(D)	22
Value added in mining.....\$1,000..	7,093	7,084	(D)	...	(D)	...	(D)	3,557	1,275	(D)	(D)	9
1093—Titanium ores:												
Number of establishments.....	11	9	...	...	...	...	8	...	8	...	1	2
Number of employees.....	962	(D)	...	...	...	...	(D)	...	(D)	...	(D)	(D)
Value added in mining.....\$1,000..	12,746	(D)	...	...	...	...	(D)	...	(D)	...	(D)	(D)
1094—Uranium-radium-vanadium ores:												
Number of establishments.....	602	469	439	351	76	12	10	6	3	1	20	133
Number of employees.....	7,939	7,701	3,210	2,638	320	252	1,898	(D)	(D)	(D)	2,593	238
Value added in mining.....\$1,000..	174,802	175,162	76,169	63,447	9,049	3,673	65,590	(D)	(D)	(D)	33,403	( <sup>4</sup> )
1099—Metallic ores, nec:												
Number of establishments.....	66	50	42	6	36	...	4	1	3	...	4	16
Number of employees.....	237	191	56	(D)	(D)	...	(D)	(D)	(D)	...	(D)	46
Value added in mining.....\$1,000..	1,847	1,840	252	(D)	(D)	...	(D)	(D)	(D)	...	(D)	7
11—Anthracite mining:												
Number of establishments.....	1,163	1,154	966	829	77	60	91	17	11	63	97	9
Number of employees.....	19,712	19,703	7,301	5,505	954	842	10,019	573	752	8,694	2,383	9
Value added in mining.....\$1,000..	142,198	142,348	60,696	33,962	18,320	8,414	63,758	3,196	4,786	55,776	17,894	( <sup>4</sup> )

See footnotes at end of table.

Table 1.—Number of Establishments, 1958 and 1954, and Employment and Value Added, 1958, for the Mineral Industries, Except Service Industries, in the United States, by Type of Operation for Industry Groups and Selected Industries—Continued

Industry code, industry group, or industry and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
		Total	Mining only				Mines with preparation plants					Separately operated preparation plants
			Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
BY INDUSTRY: 1958—Continued												
12—Bituminous coal mining:												
Number of establishments.....	6,773	6,727	4,897	3,937	761	199	1,620	983	466	171	210	46
Number of employees.....	186,186	185,963	50,605	42,084	5,717	2,804	132,114	106,195	15,105	10,814	3,244	223
Value added in mining.....\$1,000..	1,594,850	1,594,290	352,468	247,180	72,163	33,125	1,208,423	897,350	212,325	98,748	33,399	560
1211—Bituminous coal:												
Number of establishments.....	6,715	6,669	4,862	3,926	737	199	1,597	983	443	171	210	46
Number of employees.....	185,676	185,453	50,528	42,067	5,657	2,804	131,681	106,195	14,672	10,814	3,244	223
Value added in mining.....\$1,000..	1,585,541	1,584,981	351,874	247,103	71,646	33,125	1,199,708	897,350	203,610	98,748	33,399	560
1212—Lignite:												
Number of establishments.....	58	58	35	11	24	...	23	...	23	...	...	...
Number of employees.....	510	510	77	17	60	...	433	...	433	...	...	...
Value added in mining.....\$1,000..	9,309	9,309	594	77	517	...	8,715	...	8,715	...	...	...
13—Oil and gas extraction:												
Number of establishments.....	12,586	11,866	11,277	...	...	11,277	...	...	...	...	589	720
Number of employees.....	196,554	(D)	178,215	...	...	178,215	...	...	...	...	(D)	(D)
Value added in mining.....\$1,000..	7,927,502	(D)	7,366,804	...	...	7,366,804	...	...	...	...	(D)	(D)
1311—Crude petroleum and natural gas:												
Number of establishments.....	11,993	11,277	11,277	...	...	11,277	...	...	...	...	...	716
Number of employees.....	180,040	178,215	178,215	...	...	178,215	...	...	...	...	...	1,825
Value added in mining.....\$1,000..	7,339,922	7,366,804	7,366,804	...	...	7,366,804	...	...	...	...	...	( <sup>4</sup> )
1321—Natural gas liquids:												
Number of establishments.....	593	589	...	...	...	...	...	...	...	...	589	4
Number of employees.....	16,514	(D)	...	...	...	...	...	...	...	...	(D)	(D)
Value added in mining.....\$1,000..	587,580	(D)	...	...	...	...	...	...	...	...	(D)	(D)
14—Nonmetallic minerals mining:												
Number of establishments.....	7,231	7,119	1,942	85	1,501	356	5,107	132	4,404	571	70	112
Number of employees.....	115,703	115,366	15,220	859	8,022	6,339	98,764	9,594	79,947	9,223	1,382	337
Value added in mining.....\$1,000..	1,378,208	1,376,249	220,623	6,029	91,560	123,034	1,135,167	137,665	901,999	95,503	20,459	1,959
1411—Dimension stone:												
Number of establishments.....	335	325	316	1	315	...	9	...	9	...	...	10
Number of employees.....	2,306	(D)	(D)	(D)	2,016	...	241	...	241	...	...	(D)
Value added in mining.....\$1,000..	13,076	(D)	(D)	(D)	11,820	...	1,296	...	1,296	...	...	(D)
1421—Crushed and broken stone:												
Number of establishments.....	1,957	1,943	130	4	124	2	1,789	61	1,710	18	24	14
Number of employees.....	41,404	41,363	1,231	(D)	1,103	(D)	39,848	2,189	36,995	664	284	41
Value added in mining.....\$1,000..	445,788	445,846	13,912	(D)	12,478	(D)	427,033	21,241	399,169	6,623	4,901	( <sup>4</sup> )
Crushed and broken limestone subindustry:												
Number of establishments.....	1,458	1,452	65	3	62	...	1,370	57	1,295	18	17	6
Number of employees.....	31,408	31,385	(D)	(D)	746	...	(D)	(D)	27,795	664	249	25
Value added in mining.....\$1,000..	344,368	334,392	(D)	(D)	8,387	...	(D)	(D)	297,069	6,623	4,628	( <sup>4</sup> )
Crushed and broken granite subindustry:												
Number of establishments.....	121	121	13	...	13	...	108	...	108	...	...	...
Number of employees.....	3,309	3,309	80	...	80	...	3,229	...	3,229	...	...	...
Value added in mining.....\$1,000..	33,493	33,493	1,536	...	1,536	...	31,957	...	31,957	...	...	...
Crushed and broken stone nec subindustry:												
Number of establishments.....	378	370	52	1	49	2	311	4	307	...	7	8
Number of employees.....	6,687	6,671	(D)	(D)	277	(D)	(D)	(D)	5,973	...	35	16
Value added in mining.....\$1,000..	77,927	77,961	(D)	(D)	2,555	(D)	(D)	(D)	70,143	...	273	( <sup>4</sup> )
1441—Sand and gravel:												
Number of establishments.....	3,703	3,679	927	...	597	330	2,739	...	2,212	527	13	24
Number of employees.....	37,048	(D)	(D)	...	3,006	(D)	31,552	...	26,301	5,251	(D)	(D)
Value added in mining.....\$1,000..	434,468	(D)	(D)	...	44,550	(D)	361,061	...	305,231	55,830	(D)	(D)
Common sand and gravel subindustry:												
Number of establishments.....	3,534	3,511	899	...	570	329	2,602	...	2,081	521	10	23
Number of employees.....	534,164	534,128	5,210	...	2,897	2,313	28,419	...	23,269	5,150	69	36
Value added in mining.....\$1,000..	401,700	401,640	70,485	...	43,675	26,810	330,304	...	275,860	54,444	851	60

See footnotes at end of table.



## MINERAL INDUSTRIES—SUMMARY STATISTICS

Table 1.—Number of Establishments, 1958 and 1954, and Employment and Value Added, 1958, for the Mineral Industries, Except Service Industries, in the United States, by Type of Operation for Industry Groups and Selected Industries—Continued

Industry code, industry group, or industry and item	All types of establishments, total	Producing establishments									Separately operated preparation plants	Nonproducing establishments
		Total	Mining only				Mines with preparation plants					
			Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
BY INDUSTRY: 1958—Continued												
14—Nonmetallic minerals mining—Continued												
1441—Sand and gravel—Continued												
Glass sand subindustry:												
Number of establishments.....	45	44	5	...	4	1	36	...	32	4	3	1
Number of employees.....	1,628	(D)	(D)	...	7	(D)	1,549	...	(D)	(D)	(D)	(D)
Value added in mining.....\$1,000..	20,672	(D)	(D)	...	62	(D)	19,474	...	(D)	(D)	(D)	(D)
Molding sand subindustry:												
Number of establishments.....	124	124	23	...	23	...	101	...	99	2	...	...
Number of employees.....	51,256	1,191	102	...	102	...	1,089	...	(D)	(D)	...	...
Value added in mining.....\$1,000..	12,096	12,096	813	...	813	...	11,283	...	(D)	(D)	...	...
145—Clay and related minerals:												
Number of establishments.....	490	481	298	26	264	8	183	4	177	2	...	9
Number of employees.....	8,773	8,750	1,496	395	989	112	7,254	(D)	7,179	(D)	...	23
Value added in mining.....\$1,000..	87,368	87,328	15,964	2,221	12,271	1,472	71,364	(D)	70,923	(D)	...	40
1452—Bentonite:												
Number of establishments.....	41	40	15	...	15	...	25	1	23	1	...	1
Number of employees.....	688	(D)	(D)	...	(D)	...	580	(D)	(D)	(D)	...	(D)
Value added in mining.....\$1,000..	12,220	(D)	(D)	...	(D)	...	11,094	(D)	(D)	(D)	...	(D)
1453—Fire clay:												
Number of establishments.....	182	180	149	23	121	5	31	3	28	...	...	2
Number of employees.....	1,473	(D)	(D)	343	589	(D)	(D)	(D)	451	...	...	(D)
Value added in mining.....\$1,000..	14,540	(D)	(D)	2,025	7,651	(D)	(D)	(D)	4,307	...	...	(D)
1454—Fuller's earth:												
Number of establishments.....	14	14	3	...	3	...	11	...	11	...	...	...
Number of employees.....	652	652	(D)	...	(D)	...	(D)	...	(D)	...	...	...
Value added in mining.....\$1,000..	5,955	5,955	(D)	...	(D)	...	(D)	...	(D)	...	...	...
1455—Kaolin and ball clay:												
Number of establishments.....	53	53	10	...	9	1	43	...	43	...	...	...
Number of employees.....	3,394	3,394	96	...	(D)	(D)	3,298	...	3,298	...	...	...
Value added in mining.....\$1,000..	30,990	30,990	2,008	...	(D)	(D)	28,982	...	28,982	...	...	...
1456—Feldspar:												
Number of establishments.....	74	71	59	2	56	1	12	...	12	...	...	3
Number of employees.....	567	567	113	(D)	95	(D)	454	...	454	...	...	...
Value added in mining.....\$1,000..	4,531	4,532	547	(D)	470	(D)	3,985	...	3,985	...	...	(*)
1457—Magnesite and brucite:												
Number of establishments.....	4	4	1	...	1	...	3	...	3	...	...	...
Number of employees.....	337	337	(D)	...	(D)	...	(D)	...	(D)	...	...	...
Value added in mining.....\$1,000..	5,978	5,978	(D)	...	(D)	...	(D)	...	(D)	...	...	...
1459—Clay and related minerals, nec:												
Number of establishments.....	122	119	61	1	59	1	58	...	57	1	...	3
Number of employees.....	1,662	(D)	(D)	(D)	161	(D)	1,456	...	(D)	(D)	...	(D)
Value added in mining.....\$1,000..	13,154	(D)	(D)	(D)	1,552	(D)	11,418	...	(D)	(D)	...	(D)
147—Chemical and fertilizer minerals:												
Number of establishments.....	271	237	67	13	40	14	137	41	83	13	33	34
Number of employees.....	20,556	20,394	4,245	(D)	282	(D)	(D)	6,344	5,876	(D)	(D)	162
Value added in mining.....\$1,000..	335,153	333,102	97,507	(D)	2,523	(D)	(D)	104,909	85,974	(D)	(D)	2,051
1472—Barite:												
Number of establishments.....	53	48	13	1	12	...	34	4	29	1	1	5
Number of employees.....	929	922	(D)	(D)	(D)	...	875	(D)	662	(D)	(D)	7
Value added in mining.....\$1,000..	11,321	11,318	(D)	(D)	(D)	...	10,840	(D)	9,232	(D)	(D)	3
1473—Fluorspar:												
Number of establishments.....	55	43	16	11	4	1	23	14	6	3	4	12
Number of employees.....	1,235	1,217	(D)	104	(D)	(D)	(D)	892	(D)	(D)	59	18
Value added in mining.....\$1,000..	12,653	12,736	(D)	1,095	(D)	(D)	(D)	7,366	(D)	(D)	478	(*)
1474—Potash, soda, borate minerals:												
Number of establishments.....	21	17	...	...	...	...	17	7	3	7	...	4
Number of employees.....	6,661	(D)	...	...	...	...	(D)	(D)	(D)	(D)	...	(D)
Value added in mining.....\$1,000..	111,082	(D)	...	...	...	...	(D)	(D)	(D)	(D)	...	(D)
1475—Phosphate rock:												
Number of establishments.....	65	63	19	1	17	1	31	1	30	...	13	2
Number of employees.....	5,393	(D)	(D)	(D)	217	(D)	(D)	(D)	4,011	...	782	(D)
Value added in mining.....\$1,000..	64,375	(D)	(D)	(D)	1,918	(D)	(D)	(D)	49,830	...	9,234	(D)

See footnotes at end of table.

Table 1.—Number of Establishments, 1958 and 1954, and Employment and Value Added, 1958, for the Mineral Industries, Except Service Industries, in the United States, by Type of Operation for Industry Groups and Selected Industries—Continued

Industry code, industry group, or industry and item	All types of establishments, total	Producing establishments								Separately operated preparation plants	Non-producing establishments	
		Total	Mining only				Mines with preparation plants					
			Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>			Combination methods and other methods <sup>3</sup>
BY INDUSTRY: 1958—Continued												
14—Nonmetallic minerals mining—Continued												
147—Chemical and fertilizer minerals—Continued												
1476—Rock salt:												
Number of establishments.....	22	21	...	...	...	...	16	9	5	2	5	
Number of employees.....	1,984	(D)	...	...	...	...	(D)	(D)	(D)	(D)	(D)	
Value added in mining.....\$1,000..	34,073	(D)	...	...	...	...	(D)	(D)	(D)	(D)	(D)	
1477—Sulfur:												
Number of establishments.....	24	19	14	...	2	12	5	...	5	...	5	
Number of employees.....	3,677	(D)	(D)	...	(D)	(D)	(D)	...	(D)	...	(D)	
Value added in mining.....\$1,000..	94,063	(D)	(D)	...	(D)	(D)	(D)	...	(D)	...	(D)	
1479—Chemical-fertilizer mining, nec:												
Number of establishments.....	31	26	5	...	5	...	11	6	5	...	10	
Number of employees.....	677	(D)	(D)	...	(D)	...	(D)	(D)	(D)	...	(D)	
Value added in mining.....\$1,000..	7,586	(D)	(D)	...	(D)	...	(D)	(D)	(D)	...	(D)	
149—Miscellaneous minerals, nec:												
Number of establishments.....	475	454	204	41	161	2	250	26	213	11	21	
Number of employees.....	5,616	5,579	(D)	251	626	(D)	(D)	(D)	3,355	329	37	
Value added in mining.....\$1,000..	62,355	62,402	(D)	1,991	7,918	(D)	(D)	(D)	39,406	1,806	(4)	
1492—Gypsum:												
Number of establishments.....	32	30	11	...	11	...	19	2	17	...	2	
Number of employees.....	406	(D)	(D)	...	(D)	...	(D)	(D)	248	...	(D)	
Value added in mining.....\$1,000..	5,958	(D)	(D)	...	(D)	...	(D)	(D)	4,312	...	(D)	
1493—Mica:												
Number of establishments.....	149	139	83	20	61	2	56	8	45	3	10	
Number of employees.....	727	715	326	(D)	135	(D)	389	(D)	296	(D)	12	
Value added in mining.....\$1,000..	4,974	4,986	2,651	(D)	1,431	(D)	2,335	(D)	1,877	(D)	(4)	
1494—Native asphalt and bitumens:												
Number of establishments.....	10	10	1	...	1	...	9	4	5	...	...	
Number of employees.....	464	464	(D)	...	(D)	...	(D)	(D)	(D)	...	...	
Value added in mining.....\$1,000..	5,954	5,954	(D)	...	(D)	...	(D)	(D)	(D)	...	...	
1495—Pumice and pumicite:												
Number of establishments.....	64	64	36	...	36	...	28	...	28	...	...	
Number of employees.....	316	316	99	...	99	...	217	...	217	...	...	
Value added in mining.....\$1,000..	4,058	4,058	1,683	...	1,683	...	2,375	...	2,375	...	...	
1496—Talc, soapstone, pyrophyllite:												
Number of establishments.....	64	59	36	18	18	...	23	8	11	4	5	
Number of employees.....	1,294	1,293	97	65	32	...	1,196	507	474	215	1	
Value added in mining.....\$1,000..	11,755	11,772	1,254	799	455	...	10,518	6,322	3,064	1,132	(4)	
1497—Natural abrasives, except sand:												
Number of establishments.....	20	20	4	...	4	...	16	...	16	...	...	
Number of employees.....	229	229	(D)	...	(D)	...	(D)	...	(D)	...	...	
Value added in mining.....\$1,000..	2,648	2,648	(D)	...	(D)	...	(D)	...	(D)	...	...	
1498—Peat:												
Number of establishments.....	81	80	20	...	20	...	60	...	60	...	1	
Number of employees.....	389	(D)	(D)	...	(D)	...	358	...	358	...	(D)	
Value added in mining.....\$1,000..	3,640	(D)	(D)	...	(D)	...	3,378	...	3,378	...	(D)	
1499—Nonmetallic minerals, nec:												
Number of establishments.....	55	52	13	3	10	...	39	4	31	4	3	
Number of employees.....	1,791	1,776	(D)	(D)	(D)	...	(D)	(D)	(D)	(D)	15	
Value added in mining.....\$1,000..	23,368	23,366	(D)	(D)	(D)	...	(D)	(D)	(D)	(D)	2	

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>For sand and gravel, represents bank, wet pit, and dry pit operations.

<sup>2</sup>Includes data for 287 sand and gravel establishments for which the method of mining was not specified.

<sup>3</sup>Includes data for 186 sand and gravel establishments for which the method of mining was not specified.

<sup>4</sup>Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeded capital expenditures.

<sup>5</sup>Includes employees at separately reported central offices and related facilities which were not further distributed by type of operation.



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 2.—Number of Establishments, Employment, and Value Added for the Mineral Industries, Except Service Industries, by Type of Operation for Divisions, States, Alaska, and Hawaii: 1958

(For explanation of line and column captions see Introduction)

Industry code, industry group, or industry and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
		Total	Mining only				Mines with preparation plants					Separately operated preparation plants
			Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
United States:												
Number of establishments.....	29,891	28,391	20,099	5,485	2,697	11,917	7,253	1,273	5,154	826	1,039	1,500
Number of employees.....	608,472	603,932	278,803	64,972	22,648	191,183	291,379	141,776	118,550	31,053	33,750	4,540
Value added in mining.....\$1,000..	12,217,223	12,235,778	8,386,568	480,491	346,273	7,559,804	3,055,998	1,266,796	1,491,350	297,852	793,212	( <sup>4</sup> )
New England:												
Number of establishments.....	342	337	120	...	98	22	214	9	188	17	3	5
Number of employees.....	<sup>5</sup> 3,616	<sup>6</sup> 3,303	417	...	376	41	2,832	166	2,442	224	(D)	25
Value added in mining.....\$1,000..	<sup>7</sup> 32,301	<sup>8</sup> 32,315	3,591	...	3,219	372	28,341	1,424	24,115	2,802	(D)	( <sup>4</sup> )
Maine:												
Number of establishments.....	54	52	25	...	24	1	27	...	27	...	...	2
Number of employees.....	290	(D)	(D)	...	37	(D)	248	...	248	...	...	(D)
Value added in mining.....\$1,000..	2,005	(D)	(D)	...	370	(D)	1,627	...	1,627	...	...	(D)
New Hampshire:												
Number of establishments.....	38	37	12	...	7	5	24	5	18	1	1	1
Number of employees.....	234	(D)	53	...	36	17	(D)	71	101	(D)	(D)	(D)
Value added in mining.....\$1,000..	1,977	(D)	312	...	226	86	(D)	634	960	(D)	(D)	(D)
Vermont:												
Number of establishments.....	41	40	15	...	12	3	24	3	20	1	1	1
Number of employees.....	<sup>6</sup> 790	(D)	43	...	39	4	712	(D)	635	(D)	(D)	(D)
Value added in mining.....\$1,000..	<sup>6</sup> 6,823	(D)	269	...	252	17	6,530	(D)	5,892	(D)	(D)	(D)
Massachusetts:												
Number of establishments.....	111	111	45	...	38	7	65	1	58	6	1	...
Number of employees.....	<sup>5</sup> 1,285	997	231	...	222	9	(D)	(D)	642	(D)	(D)	...
Value added in mining.....\$1,000..	10,624	10,624	2,114	...	2,013	101	(D)	(D)	7,035	(D)	(D)	...
Rhode Island:												
Number of establishments.....	18	18	5	...	3	2	13	...	12	1	...	...
Number of employees.....	147	147	10	...	(D)	(D)	137	...	(D)	(D)	...	...
Value added in mining.....\$1,000..	1,377	1,377	99	...	(D)	(D)	1,278	...	(D)	(D)	...	...
Connecticut:												
Number of establishments.....	80	79	18	...	14	4	61	...	53	8	...	1
Number of employees.....	<sup>7</sup> 859	(D)	(D)	...	(D)	(D)	799	...	702	97	...	(D)
Value added in mining.....\$1,000..	<sup>7</sup> 9,396	(D)	(D)	...	(D)	(D)	8,763	...	7,636	1,127	...	(D)
Middle Atlantic:												
Number of establishments.....	4,158	4,096	2,935	1,430	536	969	1,013	214	673	126	148	62
Number of employees.....	<sup>8</sup> 82,255	<sup>8</sup> 80,256	23,614	(D)	3,393	(D)	(D)	(D)	15,700	11,589	(D)	253
Value added in mining.....\$1,000..	<sup>8</sup> 291,002	<sup>8</sup> 691,138	197,574	(D)	44,074	(D)	(D)	(D)	176,133	78,002	(D)	( <sup>4</sup> )
New York:												
Number of establishments.....	505	490	273	1	61	211	214	8	193	13	3	15
Number of employees.....	<sup>3</sup> 9,425	7,957	1,175	(D)	149	(D)	6,356	1,560	4,515	281	426	37
Value added in mining.....\$1,000..	114,135	114,109	9,157	(D)	1,753	(D)	95,038	23,636	67,567	3,835	9,914	26
New Jersey:												
Number of establishments.....	135	135	32	...	25	7	101	4	89	8	2	...
Number of employees.....	<sup>8</sup> 3,748	<sup>8</sup> 3,748	176	...	169	7	(D)	(D)	2,390	387	(D)	...
Value added in mining.....\$1,000..	<sup>8</sup> 37,638	<sup>8</sup> 37,638	1,737	...	1,610	127	(D)	(D)	25,240	1,437	(D)	...
Pennsylvania:												
Number of establishments.....	3,518	3,471	2,630	1,429	450	751	698	202	391	105	143	47
Number of employees.....	<sup>5</sup> 69,000	68,551	22,263	13,894	3,075	5,294	43,153	23,437	8,795	10,921	3,135	216
Value added in mining.....\$1,000..	539,229	539,391	186,680	94,128	40,711	51,841	326,809	170,756	83,326	72,727	25,902	( <sup>4</sup> )
East North Central:												
Number of establishments.....	3,751	3,644	1,989	200	364	1,425	1,615	134	1,348	133	40	107
Number of employees.....	<sup>5</sup> 69,645	69,387	24,189	8,822	3,492	11,875	43,838	(D)	<sup>9</sup> 25,412	(D)	1,360	238
Value added in mining.....\$1,000..	899,223	899,975	398,929	82,002	50,154	266,773	481,723	(D)	<sup>9</sup> 318,483	(D)	19,323	( <sup>4</sup> )
Ohio:												
Number of establishments.....	1,280	1,249	727	111	158	458	507	52	407	48	15	31
Number of employees.....	19,760	19,721	6,120	944	1,731	3,445	13,101	<sup>9</sup> 3,658	<sup>9</sup> 8,037	1,406	500	39
Value added in mining.....\$1,000..	184,377	184,600	56,383	5,909	25,630	24,844	125,516	<sup>9</sup> 27,670	<sup>9</sup> 81,680	16,166	2,701	( <sup>4</sup> )
Indiana:												
Number of establishments.....	629	612	383	24	83	276	226	22	186	18	3	17
Number of employees.....	8,281	8,268	2,148	136	816	1,196	6,052	2,169	3,581	302	68	13
Value added in mining.....\$1,000..	99,255	100,351	39,214	585	12,636	25,993	60,729	14,874	43,644	2,211	408	( <sup>4</sup> )
Illinois:												
Number of establishments.....	1,072	1,037	631	39	50	542	393	55	311	27	13	35
Number of employees.....	24,351	24,280	7,278	899	250	6,129	16,723	7,979	8,401	343	279	71
Value added in mining.....\$1,000..	432,732	432,668	208,832	8,340	3,759	196,733	208,628	77,605	127,270	3,753	15,208	64

See footnotes at end of table.

Table 2.—Number of Establishments, Employment, and Value Added for the Mineral Industries, Except Service Industries, by Type of Operation for Divisions, States, Alaska, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Industry code, industry group, or industry and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
		Total	Mining only				Mines with preparation plants					Separately operated preparation plants
			Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
East North Central—Continued												
Michigan:												
Number of establishments.....	476	463	230	22	69	139	226	4	207	15	7	13
Number of employees.....	13,527	13,447	7,076	5,703	290	1,083	5,986	2,146	3,607	233	385	80
Value added in mining.....\$1,000..	151,299	150,687	83,221	60,376	4,020	18,825	67,286	17,200	48,513	1,573	180	612
Wisconsin:												
Number of establishments.....	294	283	44	4	30	10	233	1	220	12	6	11
Number of employees.....	53,726	3,671	1,390	1,140	228	22	2,153	(D)	1,963	(D)	128	35
Value added in mining.....\$1,000..	31,560	31,669	9,450	6,792	2,280	378	21,393	(D)	19,205	(D)	826	( <sup>4</sup> )
West North Central:												
Number of establishments.....	2,634	2,503	1,479	61	338	1,080	996	46	827	123	28	131
Number of employees.....	545,148	41,645	15,086	(D)	(D)	10,961	24,799	(D)	16,725	(D)	1,760	586
Value added in mining.....\$1,000..	868,377	872,698	484,540	(D)	(D)	388,055	336,404	(D)	267,659	(D)	51,754	( <sup>4</sup> )
Minnesota:												
Number of establishments.....	282	268	73	...	59	14	193	8	178	7	2	14
Number of employees.....	517,040	13,737	2,740	...	2,730	10	(D)	(D)	8,367	(D)	(D)	349
Value added in mining.....\$1,000..	310,343	311,471	82,039	...	81,870	169	(D)	(D)	179,452	(D)	(D)	( <sup>4</sup> )
Iowa:												
Number of establishments.....	290	287	75	16	44	15	212	12	189	11	...	3
Number of employees.....	2,910	2,908	423	81	300	42	2,485	153	2,247	85	...	2
Value added in mining.....\$1,000..	32,680	32,682	5,832	430	3,602	1,800	27,850	598	26,324	928	...	( <sup>4</sup> )
Missouri:												
Number of establishments.....	413	395	149	17	116	16	245	16	185	44	1	18
Number of employees.....	8,361	8,269	(D)	(D)	609	431	7,171	3,166	3,348	657	(D)	92
Value added in mining.....\$1,000..	65,375	66,203	(D)	(D)	6,527	234	59,162	22,460	31,758	4,944	(D)	( <sup>4</sup> )
North Dakota:												
Number of establishments.....	131	116	75	5	24	46	40	...	39	1	1	15
Number of employees.....	101,427	101,384	(D)	(D)	36	536	(D)	...	438	(D)	10,350	43
Value added in mining.....\$1,000..	1033,702	1034,314	(D)	(D)	310	23,073	(D)	...	5,741	(D)	105,028	( <sup>4</sup> )
South Dakota:												
Number of establishments.....	132	116	67	12	48	7	47	2	41	4	2	16
Number of employees.....	112,569	(D)	11,131	11,44	78	119	(D)	(D)	505	104	(D)	(D)
Value added in mining.....\$1,000..	1125,145	(D)	11,637	11,466	959	11212	(D)	(D)	6,031	457	(D)	(D)
Nebraska:												
Number of establishments.....	262	239	115	...	16	99	119	...	92	27	5	23
Number of employees.....	101,843	(D)	(D)	...	(D)	561	926	...	752	174	10,278	(D)
Value added in mining.....\$1,000..	1061,600	(D)	(D)	...	(D)	50,007	8,458	...	7,148	1,310	103,437	(D)
Kansas:												
Number of establishments.....	1,124	1,082	925	11	31	883	140	8	103	29	17	42
Number of employees.....	11,535	11,477	9,497	38	107	9,352	121,652	12,324	1,068	260	12,328	58
Value added in mining.....\$1,000..	343,528	344,328	315,491	268	1,267	313,956	1217,049	123,098	11,205	2,746	1211,788	( <sup>4</sup> )
South Atlantic:												
Number of establishments.....	4,485	4,404	3,176	1,888	357	931	1,078	354	572	152	150	81
Number of employees.....	103,954	103,692	(D)	20,483	(D)	(D)	(D)	46,827	(D)	7,516	2,565	262
Value added in mining.....\$1,000..	926,752	928,238	(D)	115,646	(D)	(D)	(D)	433,000	(D)	72,337	39,082	( <sup>4</sup> )
Delaware and Maryland:												
Number of establishments.....	172	169	92	50	37	5	73	6	59	8	4	3
Number of employees.....	132,320	132,315	494	265	193	1336	1,782	(D)	1,415	(D)	39	5
Value added in mining.....\$1,000..	1322,419	1322,434	3,484	1,175	1,339	13970	17,957	(D)	15,657	(D)	993	( <sup>4</sup> )
Virginia:												
Number of establishments.....	1,025	1,017	799	729	48	22	188	62	101	25	30	8
Number of employees.....	17,851	17,810	(D)	146,949	517	(D)	9,793	5,406	2,981	1,406	(D)	41
Value added in mining.....\$1,000..	133,606	133,738	(D)	1431,349	4,650	(D)	90,486	49,486	25,618	15,382	(D)	( <sup>4</sup> )
West Virginia:												
Number of establishments.....	2,632	2,591	2,058	1,087	100	871	431	273	70	88	102	41
Number of employees.....	67,097	67,023	1518,268	13,153	15715	4,400	1547,512	1540,507	151,524	155,481	1,243	74
Value added in mining.....\$1,000..	596,706	596,823	15133,423	82,697	155,029	45,697	15442,929	15376,729	1514,968	1551,232	20,471	( <sup>4</sup> )
North Carolina:												
Number of establishments.....	222	214	109	15	84	10	104	9	89	6	1	8
Number of employees.....	3,351	3,333	(D)	85	197	(D)	2,983	534	2,414	35	(D)	18
Value added in mining.....\$1,000..	26,511	26,562	(D)	271	1,950	(D)	23,937	2,835	20,924	178	(D)	( <sup>4</sup> )
South Carolina:												
Number of establishments.....	64	60	14	...	9	5	45	...	37	8	1	4
Number of employees.....	71,513	71,506	(D)	...	(D)	8	1,394	...	1,296	98	(D)	7
Value added in mining.....\$1,000..	713,090	713,100	(D)	...	(D)	101	12,380	...	10,986	1,394	(D)	( <sup>4</sup> )

See footnotes at end of table.



## MINERAL INDUSTRIES—SUMMARY STATISTICS

Table 2.—Number of Establishments, Employment, and Value Added for the Mineral Industries, Except Service Industries, by Type of Operation for Divisions, States, Alaska, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Industry code, industry group, or industry and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
		Total	Mining only				Mines with preparation plants					Separately operated preparation plants
			Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
South Atlantic—Continued												
Georgia:												
Number of establishments.....	170	165	70	7	56	7	94	4	82	8	1	5
Number of employees.....	5,186	5,181	(D)	(D)	372	19	4,740	285	4,371	84	(D)	5
Value added in mining.....\$1,000..	51,908	52,139	(D)	(D)	2,908	204	48,778	3,681	44,368	729	(D)	( <sup>4</sup> )
Florida:												
Number of establishments.....	200	188	34	...	23	11	143	...	134	9	11	12
Number of employees.....	6,636	6,524	355	...	278	77	5,371	...	5,231	140	798	112
Value added in mining.....\$1,000..	82,512	83,442	4,927	...	3,556	1,371	67,049	...	65,658	1,391	11,466	( <sup>4</sup> )
East South Central:												
Number of establishments.....	2,856	2,764	2,002	1,196	231	575	683	250	362	71	79	92
Number of employees.....	<sup>17</sup> 57,566	<sup>17</sup> 57,395	21,222	(D)	(D)	6,748	34,636	(D)	7,891	(D)	<sup>17</sup> 1,537	171
Value added in mining.....\$1,000..	<sup>17</sup> 619,563	<sup>17</sup> 620,403	272,241	(D)	(D)	189,195	306,717	(D)	98,785	(D)	<sup>17</sup> 41,445	( <sup>4</sup> )
Kentucky:												
Number of establishments.....	1,849	1,821	1,440	945	87	408	324	175	114	35	57	28
Number of employees.....	34,307	34,224	14,318	9,471	571	4,276	<sup>16</sup> 19,088	14,550	2,795	<sup>16</sup> 1,743	<sup>16</sup> 818	83
Value added in mining.....\$1,000..	310,031	309,692	122,559	49,644	6,425	66,490	<sup>16</sup> 173,251	110,801	47,221	<sup>16</sup> 15,229	<sup>16</sup> 13,882	339
Tennessee:												
Number of establishments.....	521	497	296	184	92	20	188	36	137	15	13	24
Number of employees.....	8,620	8,568	2,383	(D)	(D)	94	6,022	3,094	2,662	266	163	52
Value added in mining.....\$1,000..	67,794	67,857	13,816	(D)	(D)	1,361	52,815	22,609	27,863	2,343	1,226	( <sup>4</sup> )
Alabama:												
Number of establishments.....	301	274	135	67	42	26	133	39	83	11	6	27
Number of employees.....	11,658	11,647	2,404	1,636	460	308	(D)	(D)	1,917	140	(D)	11
Value added in mining.....\$1,000..	124,375	125,120	26,833	9,905	3,946	12,982	(D)	(D)	18,280	918	(D)	( <sup>4</sup> )
Mississippi:												
Number of establishments.....	185	172	131	...	10	121	37	...	27	10	4	13
Number of employees.....	<sup>17</sup> 2,981	<sup>17</sup> 2,956	2,149	...	79	2,070	(D)	...	517	(D)	(D)	25
Value added in mining.....\$1,000..	<sup>17</sup> 117,363	<sup>17</sup> 117,734	109,269	...	907	108,362	(D)	...	5,421	(D)	(D)	( <sup>4</sup> )
West South Central:												
Number of establishments.....	6,712	6,479	5,652	38	142	5,472	418	19	323	76	409	233
Number of employees.....	<sup>18</sup> 139,985	<sup>18</sup> 139,424	(D)	(D)	(D)	115,248	10,133	1,002	7,494	1,637	(D)	561
Value added in mining.....\$1,000..	<sup>18</sup> 5,320,232	<sup>18</sup> 5,303,880	(D)	(D)	(D)	4,766,580	103,673	9,885	76,611	17,177	(D)	( <sup>4</sup> )
Arkansas:												
Number of establishments.....	366	351	266	13	45	208	66	11	50	5	19	15
Number of employees.....	4,592	4,540	2,640	(D)	388	(D)	1,589	347	1,170	72	311	52
Value added in mining.....\$1,000..	104,700	105,023	86,604	(D)	5,088	(D)	12,750	2,524	9,721	505	5,669	( <sup>4</sup> )
Louisiana:												
Number of establishments.....	679	639	515	...	14	501	68	2	44	22	56	40
Number of employees.....	25,478	25,234	(D)	...	(D)	(D)	1,944	(D)	1,004	(D)	(D)	244
Value added in mining.....\$1,000..	<sup>7</sup> 1,307,427	(D)	(D)	...	(D)	(D)	23,006	(D)	9,545	(D)	(D)	( <sup>4</sup> )
Oklahoma:												
Number of establishments.....	1,890	1,842	1,678	25	25	1,628	84	5	56	23	80	48
Number of employees.....	<sup>18</sup> 27,527	<sup>18</sup> 27,429	23,226	237	106	22,883	<sup>18</sup> 1,751	(D)	1,177	(D)	2,452	98
Value added in mining.....\$1,000..	<sup>18</sup> 594,026	<sup>18</sup> 594,264	527,025	1,364	1,115	524,546	<sup>18</sup> 16,267	(D)	11,772	(D)	50,972	( <sup>4</sup> )
Texas:												
Number of establishments.....	3,777	3,647	3,193	...	58	3,135	200	1	173	26	254	130
Number of employees.....	<sup>5</sup> 82,388	<sup>5</sup> 82,221	68,583	...	261	68,322	4,867	(D)	4,143	(D)	8,686	167
Value added in mining.....\$1,000..	3,314,079	3,318,658	2,935,601	...	2,617	2,932,984	52,043	(D)	45,573	(D)	331,014	( <sup>4</sup> )
Mountain:												
Number of establishments.....	3,171	2,575	1,877	612	413	852	596	195	350	51	102	596
Number of employees.....	74,405	72,365	29,218	(D)	5,575	(D)	34,931	20,801	(D)	(D)	8,216	2,040
Value added in mining.....\$1,000..	1,635,093	1,646,981	1,067,927	(D)	93,630	(D)	474,382	235,687	(D)	(D)	104,672	( <sup>4</sup> )
Montana:												
Number of establishments.....	375	315	254	49	56	149	56	18	32	6	5	60
Number of employees.....	<sup>19</sup> 7,832	<sup>19</sup> 7,620	5,321	1,052	97	4,172	927	583	302	42	<sup>19</sup> 1,372	212
Value added in mining.....\$1,000..	<sup>19</sup> 108,657	<sup>19</sup> 109,365	89,071	7,432	1,038	80,601	13,963	7,490	5,968	505	<sup>19</sup> 6,331	( <sup>4</sup> )
Idaho:												
Number of establishments.....	166	113	44	15	24	5	68	20	45	3	1	53
Number of employees.....	<sup>11</sup> 3,932	<sup>11</sup> 3,789	(D)	136	46	(D)	3,478	2,639	452	387	(D)	143
Value added in mining.....\$1,000..	<sup>11</sup> 36,815	<sup>11</sup> 37,026	(D)	1,814	583	(D)	32,329	19,662	6,682	5,985	(D)	( <sup>4</sup> )
Wyoming:												
Number of establishments.....	356	310	244	24	41	179	50	10	32	8	16	46
Number of employees.....	6,369	6,266	4,212	331	251	3,630	1,588	775	780	33	466	103
Value added in mining.....\$1,000..	320,227	322,534	285,683	3,081	7,938	274,664	27,388	9,487	17,044	857	9,463	( <sup>4</sup> )

See footnotes at end of table.

Table 2.—Number of Establishments, Employment, and Value Added for the Mineral Industries, Except Service Industries, by Type of Operation for Divisions, States, Alaska, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Industry code, industry group, or industry and item	All types of establishments, total	Producing establishments								Separately operated preparation plants	Nonproducing establishments	
		Total	Mining only				Mines with preparation plants					
			Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>			Combination methods and other methods <sup>3</sup>
Mountain—Continued												
Colorado:												
Number of establishments.....	836	687	513	244	98	171	145	65	68	12	29	149
Number of employees.....	12,344	11,722	4,926	1,402	206	3,318	5,256	4,373	704	179	1,540	622
Value added in mining.....\$1,000..	232,890	236,064	153,626	16,349	1,913	135,364	60,366	50,445	8,128	1,793	22,072	( <sup>4</sup> )
New Mexico:												
Number of establishments.....	537	471	366	44	24	298	69	27	38	4	36	66
Number of employees.....	2013,610	2013,389	206,010	547	842	204,621	5,778	4,269	432	1,077	1,601	221
Value added in mining.....\$1,000..	20491,398	20492,642	20355,875	8,280	10,801	20316,794	121,461	78,537	(D)	(D)	35,306	( <sup>4</sup> )
Arizona:												
Number of establishments.....	311	233	152	54	88	10	77	15	55	7	4	78
Number of employees.....	14,990	14,748	(D)	1,414	268	(D)	12,752	5,108	7,552	92	(D)	242
Value added in mining.....\$1,000..	185,088	187,331	(D)	15,058	3,781	(D)	163,725	41,308	121,821	596	(D)	( <sup>4</sup> )
Utah:												
Number of establishments.....	397	303	216	135	43	38	77	38	34	5	10	94
Number of employees.....	12,497	12,249	5,919	1,878	3,196	845	3,585	3,033	455	97	2,745	248
Value added in mining.....\$1,000..	230,394	232,528	170,637	47,494	59,730	63,413	37,369	28,635	7,129	1,605	24,522	( <sup>4</sup> )
Nevada:												
Number of establishments.....	193	145	77	37	38	2	65	9	51	5	3	48
Number of employees.....	2,935	2,764	(D)	(D)	699	(D)	1,559	21	1,385	153	(D)	171
Value added in mining.....\$1,000..	30,295	31,167	(D)	(D)	7,846	(D)	17,781	123	15,643	2,015	(D)	( <sup>4</sup> )
Pacific:												
Number of establishments.....	1,782	1,589	876	60	216	600	631	52	487	92	82	193
Number of employees.....	32,160	31,740	17,451	191	626	16,634	12,417	1,535	8,021	2,861	1,872	420
Value added in mining.....\$1,000..	1,215,721	1,217,442	964,772	2,194	13,828	948,750	192,443	15,299	141,880	35,264	60,227	( <sup>4</sup> )
Washington:												
Number of establishments.....	195	162	60	13	39	8	99	12	80	7	3	33
Number of employees.....	1,980	1,829	245	94	116	35	1,567	509	895	163	17	151
Value added in mining.....\$1,000..	22,938	23,386	2,210	1,099	1,070	41	21,052	6,042	13,373	1,637	124	( <sup>4</sup> )
Oregon:												
Number of establishments.....	200	163	38	5	23	10	121	8	91	22	4	37
Number of employees.....	1,217	1,138	130	5	100	25	998	113	577	308	10	79
Value added in mining.....\$1,000..	15,861	16,222	6,063	167	5,479	417	10,036	1,937	5,628	2,471	123	( <sup>4</sup> )
California:												
Number of establishments.....	1,387	1,264	778	42	154	582	411	32	316	63	75	123
Number of employees.....	28,963	28,773	17,076	92	410	16,574	9,852	913	6,549	2,390	1,845	190
Value added in mining.....\$1,000..	1,176,922	1,177,834	956,499	928	7,279	948,292	161,355	7,320	122,879	31,156	59,980	( <sup>4</sup> )
Alaska:												
Number of establishments.....	152	107	13	2	10	1	94	1	92	1	...	45
Number of employees.....	11976	11892	(D)	(D)	57	(D)	(D)	(D)	621	(D)	...	84
Value added in mining.....\$1,000..	118,820	119,727	(D)	(D)	627	(D)	(D)	(D)	7,869	(D)	...	( <sup>4</sup> )
Hawaii:												
Number of establishments.....	20	20	9	...	9	...	11	...	11	...	...	...
Number of employees.....	21421	21421	2145	...	2145	...	376	...	376	...	...	...
Value added in mining.....\$1,000..	214,550	214,550	21683	...	21683	...	3,867	...	3,867	...	...	...

D Withheld to avoid disclosing data for individual companies. <sup>1</sup>For sand and gravel, represents bank, wet pit, and dry pit operations. <sup>2</sup>Includes data for 287 sand and gravel establishments for which the method of mining was not specified. <sup>3</sup>Includes data for 186 sand and gravel establishments for which the method of mining was not specified. <sup>4</sup>Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeded capital expenditures. <sup>5</sup>Includes data for employees at separately reported central offices and related facilities which were not distributed by type of operation. For New England, see also footnotes 6 and 7. <sup>6</sup>Includes data for the Vermont operations of one mining services establishment classified in another State. <sup>7</sup>Includes data for one metal mining services operation. <sup>8</sup>Includes data for one metal mining services operation in New Jersey. <sup>9</sup>Figures for 2 underground stone quarries are included with those for open-pit mines. <sup>10</sup>Includes data for the Oil and Gas Exploration Services and the Oil and Gas Field Services, NEC, Industries. For North Dakota employment for "All types of establishments," see also footnote 5. <sup>11</sup>Includes data for mining services operations. <sup>12</sup>Figures for 2 separately operated preparation plants in the Crushed and Broken Stone Industry are combined with those for underground mines with preparation plants. <sup>13</sup>Includes data for oil and gas field services establishments. <sup>14</sup>Excludes data for 2 underground mines in the Metal Mining and Nonmetallic Minerals Mining Industries. <sup>15</sup>Figures for 5 open-pit nonmetallic mineral mines only are included with the figures for open-pit mines with preparation plants. Figures for one underground stone quarry are included with figures for combination methods and other methods. <sup>16</sup>Figures for one separately operated preparation plant in the Fluorspar Industry are included with those for mines with preparation plants, combination methods, and other methods. <sup>17</sup>Includes data for one non-metallic minerals services establishment. <sup>18</sup>Includes data for coal mining services operations. For West South Central, all operations, see footnotes 5 and 7. <sup>19</sup>Excludes data for 2 natural gas liquids plants. <sup>20</sup>Includes data for 2 nonmetallic minerals services establishments. <sup>21</sup>Includes figures for the Hawaii operations of one service establishment primarily engaged in metal mining services in Nevada.



## MINERAL INDUSTRIES-SUMMARY STATISTICS

Table 3.-General Statistics for Nonproducing Establishments in the Mineral Industries, by Industry Group and Industry: 1958 and 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group and industry <sup>1</sup>	1958									1954	
		Establishments, number		All employees		Production and development workers			Cost of supplies, etc. and purchased machinery (\$1,000)	Capital expenditures (\$1,000)	All employees, number	New capital expenditures (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	All mineral industries.....	1,500	38	4,540	22,447	2,851	4,960	11,984	108,292	79,739	5,482	109,353
10	Metal mining.....	613	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2,770	76,827
1011	Iron ores.....	29	8	491	2,863	383	701	2,046	14,394	12,811	435	33,316
1021	Copper ores.....	63	4	338	1,632	255	434	1,181	13,274	12,199	793	28,437
1031	Lead and zinc ores.....	117	4	420	1,585	294	427	948	2,239	1,011	352	4,666
	Lead ores.....	96	2	278	1,062	203	289	657	1,516	386	193	1,299
	Zinc ores.....	21	2	142	523	91	138	291	723	625	159	3,367
104	Gold and silver ores.....	187	1	363	1,214	319	543	1,059	1,698	1,788	322	1,063
1042	Lode gold.....	140	...	256	784	228	332	692	868	938	197	514
1043	Placer gold.....	28	...	46	98	40	55	83	193	252	42	184
1044	Silver ores.....	19	1	61	332	51	106	284	637	598	83	365
106	Ferroalloy ores.....	53	2	220	916	135	216	483	494	713	138	930
1062	Manganese ores.....	17	...	40	99	30	38	63	164	95	50	248
1064	Tungsten ores.....	24	1	127	577	55	81	194	123	101	45	209
1069	Ferroalloy ores, nec.....	12	1	53	240	50	97	226	207	517	43	473
109	Miscellaneous metal ores.....	163	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1092	Mercury ores.....	12	...	22	56	19	24	48	47	56	27	66
1094	Uranium-radium-vanadium ores.....	133	...	238	987	198	365	775	1,541	1,181	539	4,639
1099	Metallic ores, nec.....	16	...	46	148	39	67	124	312	319	(NA)	(NA)
11	Anthracite mining.....	9	...	9	26	6	7	14	172	22	53	143
1111	Anthracite.....	9	...	9	26	6	7	14	172	22	53	143
12	Bituminous coal mining.....	46	3	223	1,077	177	266	902	10,450	11,010	202	281
1211	Bituminous coal.....	46	3	223	1,077	177	266	902	10,450	11,010	202	281
13	Oil and gas extraction.....	720	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2,341	27,702
1311	Crude petroleum and natural gas.....	716	15	1,825	10,387	794	1,464	3,510	47,867	20,985	2,316	15,102
14	Nonmetallic minerals mining.....	112	1	337	1,514	228	438	873	13,832	15,799	116	4,400
1411	Dimension stone.....	10	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
	Dimension stone, nec.....	6	...	27	78	25	44	73	35	6	...	...
1421	Crushed and broken stone.....	14	...	41	123	36	61	113	111	53	(NA)	(NA)
	Crushed and broken limestone.....	6	...	25	85	22	43	78	49	25	12	57
	Crushed and broken stone, nec.....	8	...	16	38	14	18	35	62	28	(NA)	(NA)
1441	Sand and gravel.....	24	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Common sand and gravel.....	23	...	36	152	28	54	112	95	155	(NA)	(NA)
145	Clay and related minerals.....	9	...	23	77	17	29	66	165	205	14	31
147	Chemical and fertilizer minerals.....	34	1	162	963	84	172	417	13,170	15,221	35	3,503
1473	Fluorspar.....	12	...	18	80	15	30	66	136	53	18	16
149	Miscellaneous minerals, nec.....	21	...	37	104	28	67	75	198	151	32	495
1493	Mica.....	10	...	12	29	12	24	29	148	136	12	435
1499	Nonmetallic minerals, nec.....	3	...	15	52	12	27	40	12	14	1	5

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>General statistics for some industries or subindustries are not shown separately in this table in order to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such industries or subindustries are shown below with the number of establishments in each industry or subindustry (and in parenthesis the number of employees or employment size range):

SIC 1051, Bauxite, 1(0-4); SIC 1093, Titanium Ores, 2(0-4); SIC 1321, Natural Gas Liquids, 4(0-4); SIC 1411, Dimension Stone, Dimension Limestone Subindustry, 4(9); SIC 1441, Sand and Gravel, Glass Sand Subindustry, 1(0-4); SIC 1452, Bentonite, 1(0-4); SIC 1453, Fire Clay, 2(10-19); SIC 1456, Feldspar, 3(0-4); SIC 1459, Clay and Related Minerals, NEC 3(0-4); SIC 1472, Barite, 5(7); SIC 1475, Phosphate Rock, 2(5-9); SIC 1476, Rock Salt, 1(0-4); SIC 1477, Sulfur, 5(86); SIC 1479, Chemical-Fertilizer Mining, NEC, 5(22); SIC 1492, Gypsum, 2(5-9); SIC 1496, Talc, Soapstone, Pyrophyllite, 5(1); SIC 1498, Peat, 1(0-4).

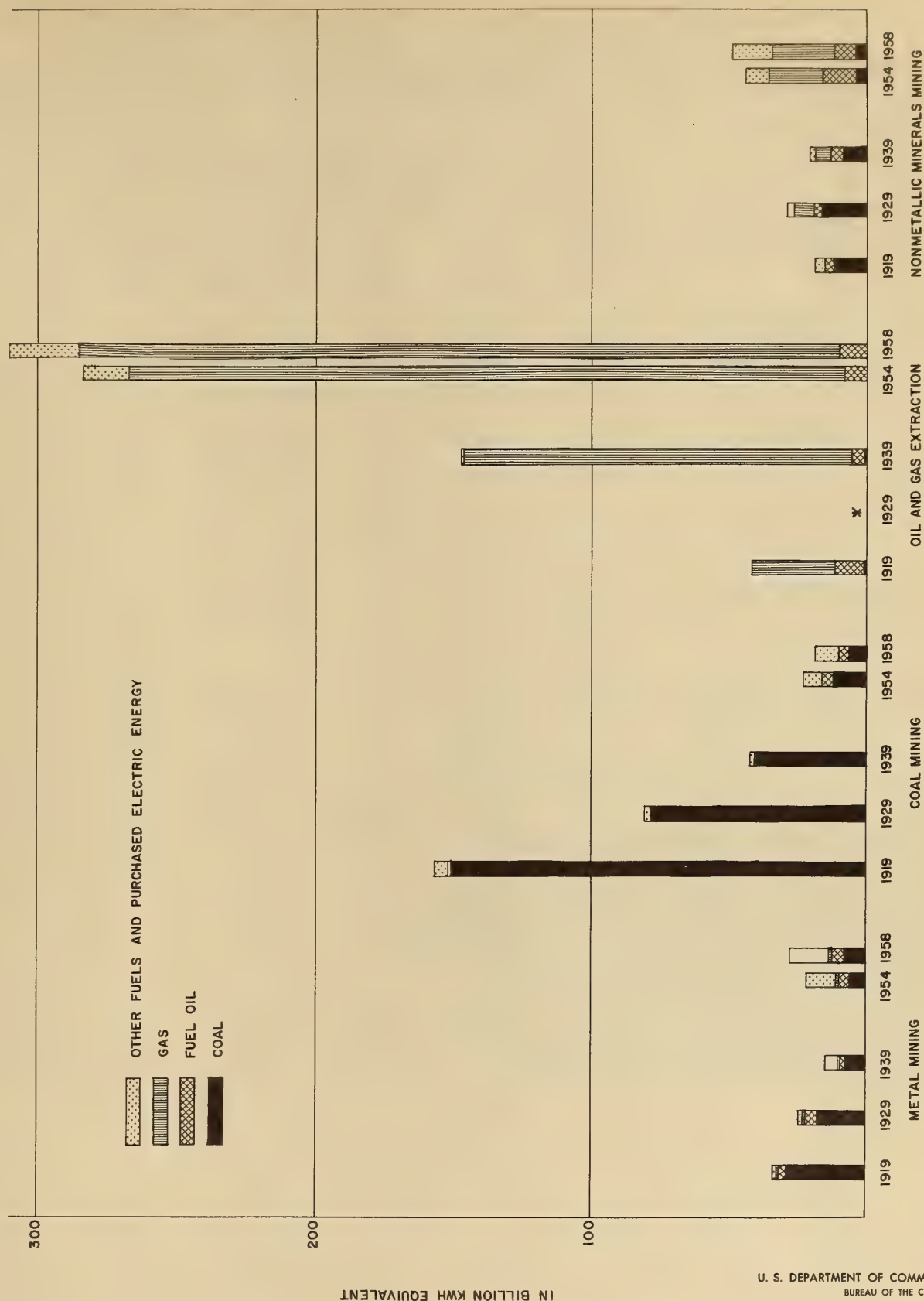
FUELS, ELECTRIC ENERGY, AND  
SELECTED SUPPLIES USED

6-1





# ENERGY USED IN THE MINERAL INDUSTRIES IN THE UNITED STATES: 1919, 1929, 1939, 1954, AND 1958





## MINERAL INDUSTRIES-SUMMARY AND INDUSTRY STATISTICS

Table 1.—Fuels and Electric Energy Used in the Mineral Industries in the United States.  
by Major Industry Group: 1958, 1954, 1939, 1929, and 1919

Ind. code	Industry group and year	Energy used <sup>1</sup> (kwh equivalent)		Fuels used <sup>2</sup>			Electric energy (million kwh)		
		Total (million)	Per production worker (1,000)	Coal (1,000 short tons)	Fuel oils (1,000 barrels)	Gas (million cu. ft.)	Purchased	Generated by reporting companies	
								Used	Sold
	All mineral industries: <sup>3</sup>								
	Including oil and gas extraction....1958...	404,935	718	2,369	14,922	996,834	16,393	4,329	810
	1954...	372,524	576	2,801	16,222	931,641	13,150	3,602	891
	1939...	224,898	291	7,186	6,115	489,052	6,329	2,070	125
	1919 <sup>4</sup> ..	<sup>5</sup> 250,133	253	26,081	9,747	103,432	(NA)	(NA)	(NA)
	Excluding oil and gas extraction.....1958...	94,622	286	2,369	9,236	102,576	12,118	2,775	761
	1954...	87,428	203	2,794	11,627	89,216	10,402	2,288	856
	1939...	77,131	123	7,160	3,770	26,720	5,677	1,884	121
	1929 <sup>6</sup> ..	133,790	165	14,675	4,047	25,536	5,382	2,081	(NA)
	1919...	<sup>5</sup> 208,702	234	26,008	3,667	2,841	(NA)	(NA)	(NA)
10	Metal mining.....1958...	27,383	384	1,052	2,586	28,388	3,876	2,192	559
	1954...	21,087	257	741	2,014	24,889	3,184	1,527	502
	1939...	14,628	163	967	1,109	8,784	2,306	616	33
	1929...	24,727	214	2,274	2,392	1,408	1,965	1,007	(NA)
	1919...	<sup>5</sup> 33,532	247	3,765	1,578	1,812	(NA)	(NA)	(NA)
11	Anthracite mining.....1958...	3,881	194	<sup>7</sup> 313	286	...	564	68	(D)
	1954...	7,198	218	<sup>7</sup> 738	334	1	731	109	195
	1939...	19,716	237	2,534	82	...	591	374	7
	1929...	42,694	299	5,679	1	...	470	478	(NA)
	1919...	<sup>5</sup> 71,293	484	9,578	1	...	(NA)	(NA)	(NA)
12	Bituminous coal and lignite mining.....1958...	14,903	91	<sup>8</sup> 540	1,843	535	4,352	80	(D)
	1954...	15,351	77	<sup>8</sup> 838	2,120	507	3,628	132	146
	1939...	22,587	61	2,577	167	103	1,958	616	75
	1929...	37,766	82	4,524	17	303	2,044	465	(NA)
	1919...	<sup>5</sup> 85,536	157	11,127	3	866	(NA)	(NA)	(NA)
13	Oil and gas extraction.....1958...	310,313	1,451	(NA)	<sup>9</sup> 5,686	<sup>10</sup> 894,251	4,275	1,554	49
	1954...	285,096	1,211	7	<sup>9</sup> 4,595	<sup>10</sup> 842,425	2,748	1,314	35
	1939 <sup>11</sup> ..	147,767	992	26	2,345	462,332	652	186	4
	1919 <sup>11</sup> ..	<sup>5</sup> 41,431	442	73	6,080	100,591	(NA)	(NA)	(NA)
14	Nonmetallic minerals mining.....1958...	48,455	508	464	4,521	73,653	3,326	435	(D)
	1954...	43,792	451	477	7,159	63,819	2,859	520	13
	1939...	20,200	249	1,082	2,412	17,833	822	278	6
	1929 <sup>6</sup> ..	28,603	302	2,198	1,637	23,825	903	131	(NA)
	1919 <sup>4</sup> ..	<sup>5</sup> 18,341	287	1,538	2,084	163	(NA)	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>Represents purchased electric energy and the kilowatt-hour equivalent of all fuels used for power or heat. For conversion factors used to convert to this international unit of energy, see Volume Introduction, Section 27<sup>th</sup>.<sup>2</sup>Represents purchased fuels and fuels produced and used in the same establishment for power or heat.<sup>3</sup>For 1958 and 1954 excludes, but for 1939 includes, data for dimension and crushed and broken stone, clay, and gypsum mines operated as parts of manufacturing establishments. For 1939 and earlier years, excludes data for service industries.<sup>4</sup>Excludes data for common clay, shale, sand, and gravel establishments.<sup>5</sup>Excludes data for purchased electric energy.<sup>6</sup>Excludes data for common clay and shale establishments.<sup>7</sup>Includes anthracite produced and used at the same establishment for power or heat: For 1958, 212 thousand tons; for 1954, 595 thousand tons.<sup>8</sup>Includes bituminous coal and lignite produced and used at the same establishment for power or heat: For 1958, 450 thousand tons; for 1954, 761 thousand tons.<sup>9</sup>Includes crude petroleum produced and used as a fuel at the same establishment: For 1958, 651 thousand barrels; for 1954, 664 thousand barrels.<sup>10</sup>Includes gas produced and used at the same establishment for power or heat: For 1958, 759 billion cubic feet; for 1954, 698 billion cubic feet.<sup>11</sup>Excludes data for oil and gas field services establishments. In 1954 and 1958, such establishments used about 10 percent of all fuels reported used in Major Group 13.

Table 2.—Fuels and Electric Energy Used in the Mineral Industries,  
by Divisions and States: 1958, 1954, and 1939(For 1958 and 1954 excludes, but for 1939 includes, data for stone, clay, and gypsum mines operated as parts of manufacturing establishments.  
For 1939, excludes data for service industries)

Division, State, and year	Total energy used <sup>1</sup>  (million kwh equivalent)	Selected fuels used <sup>2</sup>			Electric energy (million kwh)	
		Coal (1,000 short tons)	Fuel oils (1,000 barrels)	Gas	Purchased	Generated and used
United States, total.....1958..	404,935	2,369	14,922	996,834	16,393	4,329
.....1954..	372,524	2,801	16,222	931,641	13,150	3,602
.....1939..	224,898	7,186	6,115	489,052	6,329	2,070
New England.....1958..	711	6	55	7	83	( <sup>4</sup> )
.....1954..	541	2	134	3	74	3
.....1939..	404	25	38	...	40	1
Maine.....1958..	74	4	1	...	3	( <sup>4</sup> )
.....1954..	34	...	7	...	6	...
.....1939..	16	1	2	...	2	...
New Hampshire.....1958..	34	( <sup>4</sup> )	( <sup>4</sup> )	...	3	( <sup>4</sup> )
.....1954..	27	...	5	...	2	...
.....1939..	18	1	1	...	1	...
Vermont.....1958..	189	2	5	...	30	...
.....1954..	171	1	56	...	40	2
.....1939..	93	7	8	...	19	1
Massachusetts.....1958..	223	...	9	7	23	...
.....1954..	140	...	22	3	14	...
.....1939..	157	6	22	...	12	...
Rhode Island.....1958..	29	...	3	...	2	...
.....1954..	26	...	4	...	...	...
.....1939..	25	2	...	...	1	...
Connecticut.....1958..	162	...	36	...	22	( <sup>4</sup> )
.....1954..	143	1	40	...	12	1
.....1939..	95	8	5	...	5	...
Middle Atlantic.....1958..	14,926	771	1,426	5,903	2,251	126
.....1954..	19,300	1,437	1,733	7,022	2,324	185
.....1939..	30,072	3,332	354	8,274	1,409	620
New York.....1958..	2,766	162	285	1,068	336	9
.....1954..	3,256	230	268	1,481	342	1
.....1939..	1,700	107	93	1,598	113	8
New Jersey.....1958..	655	10	138	164	109	( <sup>4</sup> )
.....1954..	699	44	158	...	120	6
.....1939..	652	61	47	...	43	11
Pennsylvania.....1958..	11,505	599	1,003	4,861	1,806	117
.....1954..	15,345	1,163	1,307	5,541	1,862	178
.....1939..	27,720	3,164	214	6,676	1,253	601
East North Central.....1958..	18,184	488	1,480	18,178	1,985	380
.....1954..	16,318	551	1,814	16,521	1,575	293
.....1939..	17,935	1,706	316	10,487	638	288
Ohio.....1958..	2,907	11	595	863	363	15
.....1954..	2,677	37	680	1,068	321	14
.....1939..	2,715	218	103	1,871	119	29
Indiana.....1958..	1,630	35	159	827	246	(D)
.....1954..	1,369	45	156	725	198	14
.....1939..	1,888	201	36	292	94	11
Illinois.....1958..	8,647	109	385	14,889	974	(D)
.....1954..	7,909	199	515	12,871	671	66
.....1939..	8,569	866	127	4,641	239	97
Michigan.....1958..	4,304	328	264	1,533	316	305
.....1954..	3,668	264	263	1,849	301	187
.....1939..	4,525	403	41	3,683	157	150
Wisconsin.....1958..	696	5	75	66	86	2
.....1954..	695	6	200	8	84	12
.....1939..	238	18	9	...	29	1
West North Central.....1958..	23,645	614	2,357	31,569	1,254	857
.....1954..	18,755	172	1,987	34,390	1,395	201
.....1939..	7,324	376	161	11,383	395	23
.....1958..	7,824	554	1,513	(D)	388	(D)
.....1954..	2,645	90	711	68	391	111
.....1939..	1,715	200	26	...	94	...

See footnotes at end of table.



## MINERAL INDUSTRIES-SUMMARY AND INDUSTRY STATISTICS

Table 2.—Fuels and Electric Energy Used in the Mineral Industries,  
by Divisions and States: 1958, 1954, and 1939—Continued

Division, State, and year	Total energy used <sup>1</sup> (million kwh equivalent)	Selected fuels used <sup>2</sup>			Electric energy (million kwh)	
		Coal (1,000 short tons)	Fuel oils (1,000 barrels)	Gas	Purchased	Generated and used
West North Central—Continued						
Iowa.....1958..	941	39	102	25	37	1
.....1954..	682	3	177	13	118	1
.....1939..	201	20	11	18	27	4
Missouri.....1958..	1,305	3	181	(D)	296	( <sup>4</sup> )
.....1954..	1,255	6	256	722	303	1
.....1939..	786	54	36	177	162	5
North Dakota.....1958..	805	1	119	(D)	9	(D)
.....1954..	890	7	113	1,249	14	3
.....1939..	180	21	...	...	5	...
South Dakota.....1958..	484	16	30	445	72	(D)
.....1954..	759	61	91	471	30	57
.....1939..	557	60	2	240	11	...
Nebraska.....1958..	1,457	1	72	(D)	25	( <sup>4</sup> )
.....1954..	692	( <sup>4</sup> )	103	1,080	13	1
.....1939..	56	1	13	1	4	...
Kansas.....1958..	10,829	...	340	26,854	427	33
.....1954..	11,832	5	536	30,787	526	27
.....1939..	3,829	20	73	10,947	92	14
South Atlantic.....1958..	14,697	234	1,792	14,368	2,850	37
.....1954..	12,962	349	2,310	9,432	2,291	86
.....1939..	8,876	593	640	7,222	815	177
Delaware, Maryland, and District of Columbia.....1958..	346	(D)	58	(D)	37	1
.....1954..	476	17	105	98	16	...
.....1939..	388	37	32	1	11	7
Virginia.....1958..	1,635	82	106	380	288	4
.....1954..	1,389	90	184	2	196	6
.....1939..	701	69	20	...	98	6
West Virginia.....1958..	6,922	117	294	10,300	1,543	29
.....1954..	5,885	208	401	6,455	1,175	29
.....1939..	5,662	416	19	6,028	558	127
North Carolina.....1958..	723	(D)	50	(D)	101	...
.....1954..	504	20	121	13	77	1
.....1939..	176	16	14	...	12	...
South Carolina.....1958..	282	(D)	41	(D)	28	...
.....1954..	288	1	69	223	41	...
.....1939..	133	11	4	...	13	...
Georgia.....1958..	1,880	1	205	3,135	190	3
.....1954..	1,317	8	142	2,607	118	1
.....1939..	770	32	61	1,193	28	4
Florida.....1958..	2,909	( <sup>4</sup> )	1,038	226	663	1
.....1954..	3,094	5	1,288	34	668	49
.....1939..	1,046	12	490	...	95	33
East South Central.....1958..	12,104	150	749	20,134	1,342	26
.....1954..	9,853	110	715	18,455	1,041	43
.....1939..	5,293	520	139	1,060	489	128
Kentucky.....1958..	4,143	44	286	5,508	639	(D)
.....1954..	3,514	45	296	5,792	430	32
.....1939..	2,322	230	17	1,014	177	32
Tennessee.....1958..	1,939	82	188	1,089	239	1
.....1954..	1,116	23	199	679	175	4
.....1939..	1,421	159	18	4	142	3
Alabama.....1958..	1,491	23	170	967	417	(D)
.....1954..	1,253	40	105	452	409	...
.....1939..	1,366	128	25	13	166	93
Mississippi.....1958..	4,531	1	115	12,572	47	7
.....1954..	3,970	2	105	11,532	27	7
.....1939..	184	3	79	29	4	...
West South Central.....1958..	237,107	4	4,324	689,301	2,544	1,281
.....1954..	217,257	10	2,034	648,951	1,384	1,199
.....1939..	106,779	44	1,426	333,196	408	260
Arkansas.....1958..	3,750	( <sup>4</sup> )	49	10,051	88	3
.....1954..	3,793	2	85	10,803	126	1
.....1939..	3,306	15	27	10,085	26	...
Louisiana.....1958..	47,946	( <sup>4</sup> )	2,328	134,500	204	348
.....1954..	43,447	2	1,223	129,929	125	192
.....1939..	16,448	2	863	48,519	30	22
Oklahoma.....1958..	31,635	1	376	91,531	529	148
.....1954..	31,302	5	419	92,605	379	139
.....1939..	23,132	24	134	72,981	177	86

See footnotes at end of table.

Table 2.—Fuels and Electric Energy Used in the Mineral Industries,  
by Divisions and States: 1958, 1954, and 1939—Continued

Division, State, and year	Total energy used <sup>1</sup> (million kwh equivalent)	Selected fuels used <sup>2</sup>			Electric energy (million kwh)	
		Coal (1,000 short tons)	Fuel oils (1,000 barrels)	Gas	Purchased	Generated and used
West South Central—Continued						
Texas.....1958..	153,776	3	1,571	453,219	1,723	782
.....1954..	138,715	1	307	415,614	754	867
.....1939..	63,893	3	402	201,611	175	152
Mountain.....1958..	46,449	78	1,429	115,837	2,881	1,353
.....1954..	38,360	237	3,042	94,395	1,959	1,327
.....1939..	18,819	539	972	37,199	1,390	449
Montana.....1958..	2,879	3	121	6,054	439	3
.....1954..	2,504	31	140	5,158	346	3
.....1939..	1,210	9	35	2,408	340	5
Idaho.....1958..	580	5	92	70	160	14
.....1954..	527	13	94	...	192	8
.....1939..	233	8	27	...	116	9
Wyoming.....1958..	7,175	8	181	18,918	227	60
.....1954..	9,546	79	285	25,256	132	101
.....1939..	1,856	103	71	2,959	25	38
Colorado.....1958..	6,230	12	164	14,632	337	16
.....1954..	4,872	75	410	8,977	290	24
.....1939..	2,113	228	26	275	197	22
New Mexico.....1958..	19,451	1	257	56,616	377	311
.....1954..	12,384	10	1,421	37,021	193	163
.....1939..	9,234	83	174	26,829	21	119
Arizona.....1958..	4,579	1	179	9,415	889	554
.....1954..	3,747	1	230	9,184	325	597
.....1939..	2,372	5	559	3,879	139	249
Utah.....1958..	4,722	32	244	10,132	268	383
.....1954..	3,851	44	137	8,797	267	394
.....1939..	1,346	76	31	849	427	1
Nevada.....1958..	853	16	191	...	184	12
.....1954..	929	2	325	2	214	37
.....1939..	455	27	49	...	125	6
Pacific.....1958..	37,106	24	1,312	101,535	1,203	269
.....1954..	39,178	11	2,453	102,472	1,107	265
.....1939..	29,396	18	2,034	80,221	726	123
Washington.....1958..	475	24	37	103	50	19
.....1954..	404	9	61	...	79	19
.....1939..	251	17	29	5	42	8
Oregon.....1958..	345	...	69	...	20	6
.....1954..	349	1	103	56	24	1
.....1939..	143	...	66	...	11	4
California.....1958..	36,286	...	1,206	101,432	1,133	244
.....1954..	38,425	1	2,289	102,416	1,004	245
.....1939..	29,002	1	1,939	80,216	673	111

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>Represents purchased electric energy and the kilowatt-hour equivalent of all fuels used for power or heat. For conversion factors used to convert to this international unit of energy, see Volume Introduction, Section 27.<sup>2</sup>Represents all purchased fuels and fuels produced and used in the same establishment for power or heat for which quantity data were obtained for 1958 and 1954. Also, for 1958 and 1954, the cost of other fuels, and for 1939, the quantity of gasoline, was used in computing the total energy used. In comparing the 1958 fuels quantities with those for earlier years, note that quantity data were requested for fewer establishments in 1958 and an undistributed fuels cost was tabulated for such establishments. For the magnitude of this undistributed cost by State, see table 4.<sup>3</sup>United States total includes, but detail excludes, data for a few establishments for which statistics could not be included in the individual State figures.<sup>4</sup>Less and one-half of the unit of measure specified.



## MINERAL INDUSTRIES—SUMMARY AND INDUSTRY STATISTICS

Table 3.—Purchased Fuels and Electric Energy Used in the Mineral Industries

(For explanation of column

Ind. code	Industry group and industry	All purchased fuels and purchased electric energy		Coal purchased	
		Million kwh equivalent	Cost (\$1,000)	1,000 short tons	Cost (\$1,000)
	All mineral industries:				
	1958.....	165,205	475,998	1,707	13,659
	1954.....	146,432	365,307	1,436	10,311
	MAJOR INDUSTRY GROUPS				
10	Metal mining:				
	1958.....	27,383	75,216	1,052	9,358
	1954.....	21,087	59,598	741	6,052
11	Anthracite mining:				
	1958.....	2,303	11,387	101	438
	1954.....	2,775	12,719	143	590
12	Bituminous coal and lignite mining:				
	1958.....	11,438	80,212	90	390
	1954.....	9,509	64,913	77	418
13	Oil and gas extraction:				
	1958.....	75,626	183,985	(NA)	( <sup>1</sup> )
	1954.....	69,269	131,827	7	52
14	Nonmetallic minerals mining:				
	1958.....	48,455	125,198	464	3,473
	1954.....	43,792	96,250	468	3,199
	INDUSTRIES				
10	Metal mining.....	27,383	75,216	1,039	9,358
1011	Iron ores.....	11,106	31,447	791	7,356
1021	Copper ores.....	10,239	19,220	188	1,210
1031	Lead and zinc ores.....	1,153	6,927	17	159
	Lead ores.....	659	3,989	9	93
	Zinc ores.....	494	2,938	8	66
104	Gold and silver ores.....	528	2,526	17	91
1042	Lode gold.....	347	1,467	16	77
1043	Placer gold.....	71	525	...	...
1044	Silver ores.....	110	534	1	14
1051	Bauxite <sup>3</sup> .....	151	430	(NA)	(NA)
106	Ferroalloy ores.....	922	3,934	8	212
1062	Manganese ores.....	582	1,778	8	212
1064	Tungsten ores <sup>3</sup> .....	25	234	(NA)	(NA)
1069	Ferroalloy ores, nec <sup>3</sup> .....	315	1,922	(NA)	(NA)
108	Metal mining services.....	340	1,331	( <sup>2</sup> )	4
1081	Metal mining stripping services.....	143	545	...	...
1082	Metal mining services, nec.....	197	786	( <sup>2</sup> )	4
109	Miscellaneous metal ores.....	2,944	9,401	31	326
1092	Mercury ores.....	129	489	...	...
1093	Titanium ores.....	426	1,691	25	280
1094	Uranium-radium-vanadium ores.....	2,344	7,030	6	46
1099	Metallic ores, nec.....	45	191	...	...
11	Anthracite mining.....	2,303	11,387	101	438
1111	Anthracite.....	1,769	9,160	97	407
1112	Anthracite stripping services.....	526	2,219	3	28
1113	Anthracite mining services, nec.....	8	8	1	3
12	Bituminous coal and lignite mining.....	11,438	80,212	90	390
1211	Bituminous coal.....	10,846	77,937	90	390
1212	Lignite.....	103	470	...	...
1213	Coal stripping services, nec.....	467	1,719	...	...
1214	Coal mining services, nec.....	22	86	...	...
13	Oil and gas extraction.....	75,626	183,985	(NA)	( <sup>1</sup> )
1311	Crude petroleum and natural gas.....	34,254	101,974	(NA)	( <sup>1</sup> )
	Crude petroleum.....	33,034	97,710	(NA)	( <sup>1</sup> )
	Natural gas.....	1,220	4,264	(NA)	( <sup>1</sup> )
1321	Natural gas liquids.....	10,767	9,217	(NA)	( <sup>1</sup> )
138	Oil and gas field services.....	30,605	72,794	(NA)	( <sup>1</sup> )
1381	Drilling oil and gas wells.....	22,482	42,203	(NA)	( <sup>1</sup> )
1382	Oil and gas exploration services.....	949	3,830	(NA)	( <sup>1</sup> )
1389	Oil and gas field services, nec.....	7,174	26,761	(NA)	( <sup>1</sup> )

See footnotes at end of table.

in the United States, by Industry Group, 1958 and 1954, and by Industry, 1958

captions, see Introduction)

Fuel oil purchased		Gas purchased		Cost of other purchased fuels	Undistributed fuels cost	Electric energy				Ind. code
1,000 barrels	Cost (\$1,000)	Million cu. ft.	Cost (\$1,000)			Purchased		Generated		
						Million kwh	Cost (\$1,000)	Used (million kwh)	Sold (million kwh)	
14,271 15,558	68,358 66,461	237,724 233,895	43,474 33,569	91,410 95,347	58,042 ...	16,393 13,150	201,055 159,619	4,329 3,602	810 891	
2,586 2,014	11,994 10,641	8,388 4,889	7,829 5,478	5,679 4,765	3,126 ...	3,876 3,184	37,230 32,662	2,192 1,527	559 502	10
286 334	1,614 1,709	... 1	... 2	1,631 1,631	379 ...	564 731	7,325 8,787	68 109	(D) 195	11
1,843 2,120	10,564 10,558	535 507	212 123	6,617 6,012	5,753 ...	4,352 3,628	56,676 47,802	80 132	(D) 146	12
5,035 3,931	25,781 17,638	135,148 144,679	20,171 18,073	159,914 61,047	24,786 ...	4,275 2,748	53,333 35,017	1,554 1,314	49 35	13
4,521 7,159	18,405 25,915	73,653 63,819	15,262 9,893	17,569 21,892	23,998 ...	3,326 2,859	46,491 35,351	435 520	(D) 13	14
2,586 1,782 279 67 27 40	11,994 7,611 1,599 377 148 229	28,388 1,574 21,356 453 269 184	7,829 363 5,621 150 105 45	5,679 1,893 1,283 197 139 58	3,126 224 31 175 124 51	3,876 978 1,444 676 395 281	37,230 14,000 9,476 5,869 3,380 2,489	2,192 900 1,196 23 21 2	559 (D) 439 ... ... ...	10 1011 1021 1031
26 16 (2) 10	171 115 1 55	79 79 ... ...	37 37 ... ...	114 105 3 6	455 243 90 122	187 86 48 53	1,658 890 431 537	9 7 ... 2	(2) (2) ... ...	104 1042 1043 1044
(NA) 65 65	(NA) 266 266	(NA) 670 670	(NA) 173 173	(NA) 185 185	258 835 265	9 260 91	172 2,263 677	... 8 (D)	... ... ...	1051 106 1062
(NA) (NA)	(NA) (NA)	(NA) (NA)	(NA) (NA)	(NA) (NA)	17 553	20 149	217 1,369	... (D)	... ...	1064 1069
67 51 16	373 281 92	... ... ...	... ... ...	744 150 594	150 63 87	3 3 (2)	60 51 9	(2) ... (2)	(2) ... (2)	108 1081 1082
300 51 68	1,597 259 244	4,256 9 ...	1,485 4 ...	1,263 32 89	998 92 1	319 8 96	3,732 102 1,077	56 7 ...	(D) ... ...	109 1092 1093
165 16	1,004 90	4,242 5	1,479 2	1,127 15	869 36	212 3	2,505 48	48 1	... (D)	1094 1099
286 82 204 ...	1,614 442 1,172 ...	... ... ... ...	... ... ... ...	1,631 1,163 467 1	379 334 41 4	564 534 30 ...	7,325 6,814 511 ...	68 68 ... ...	(D) (D) ... ...	11 1111 1112 1113
1,843 1,641 14 185 3	10,564 9,428 84 1,033 19	535 514 21 ... ...	212 208 4 ... ...	6,617 6,127 88 343 59	5,753 5,475 34 236 8	4,352 4,303 42 7 (2)	56,676 56,309 260 107 ...	80 80 ... ... ...	(D) (D) ... ... ...	12 1211 1212 1213 1214
5,035 1,089 1,035 54 68	25,781 5,666 5,390 276 257	135,148 60,609 59,232 1,377 32,815	20,171 10,174 9,813 361 3,793	159,914 123,097 122,235 1862 1471	24,786 17,267 15,645 1,622 ...	4,275 3,658 3,576 82 436	53,333 45,770 44,627 1,143 4,696	1,554 192 188 4 1,059	49 35 35 ... 14	13 1311 ... 1321
3,878 3,314 29 535	19,858 16,728 110 3,020	41,724 39,378 116 2,230	6,204 5,779 27 398	136,346 118,013 12,170 116,163	7,519 422 1,228 5,869	181 99 15 67	2,867 1,261 295 1,311	303 301 2 (1)	... ... ... ...	138 1381 1382 1389



## MINERAL INDUSTRIES-SUMMARY AND INDUSTRY STATISTICS

Table 3.—Purchased Fuels and Electric Energy Used in the Mineral Industries in the

Ind. code	Industry group and industry	All purchased fuels and purchased electric energy		Coal purchased	
		Million kwh equivalent	Coal (\$1,000)	1,000 short tons	Cost (\$1,000)
	INDUSTRIES—Continued				
14	Nonmetallic minerals mining.....	48,455	125,198	464	3,473
1411	Dimension stone.....	135	826	1	5
	Dimension limestone.....	33	165	1	3
	Dimension granite.....	38	286	(2)	2
	Dimension stone, nec.....	64	375	(2)	(2)
1421	Crushed and broken stone.....	8,307	36,322	186	1,052
	Crushed and broken limestone.....	6,878	28,323	179	1,002
	Crushed and broken granite.....	384	2,429	(2)	(2)
	Crushed and broken stone, nec.....	1,045	5,570	7	50
1441	Sand and gravel.....	8,596	39,441	107	808
	Common sand and gravel.....	7,249	35,556	34	298
	Glass sand.....	966	2,349	73	510
	Molding sand.....	381	1,536	(2)	(2)
145	Clay and related minerals.....	5,477	13,190	92	833
1452	Bentonite.....	576	1,110	...	...
1453	Fire clay.....	382	1,354	...	...
1454	Fuller's earth.....	323	1,018	...	...
1455	Kaolin and ball clay.....	1,433	3,351	...	...
1456	Feldspar <sup>3</sup> .....	127	720	(NA)	(NA)
1457	Magnesite and brucite.....	391	1,014	28	317
1459	Clay and related minerals, nec.....	2,245	4,623	64	516
147	Chemical and fertilizer minerals.....	24,464	30,073	78	775
1472	Barite <sup>3</sup> .....	198	835	(NA)	(NA)
1473	Fluorspar <sup>3</sup> .....	379	1,157	(NA)	(NA)
1474	Potash, soda, borate minerals.....	8,452	10,170	(NA)	(NA)
1475	Phosphate rock.....	3,120	10,291	78	775
1476	Rock salt.....	416	766	(NA)	(NA)
1477	Sulfur.....	11,819	6,485	(NA)	(NA)
1479	Chemical-fertilizer mining, nec.....	80	369	(NA)	(NA)
148	Nonmetallic minerals services.....	105	430	...	...
1481	Nonmetallic minerals stripping.....	73	291	...	...
1482	Nonmetallic services, nec.....	32	139	...	...
149	Miscellaneous minerals, nec <sup>3</sup> .....	1,371	4,916	(NA)	(NA)
1492	Gypsum <sup>3</sup> .....	74	284	(NA)	(NA)
1493	Mica <sup>3</sup> .....	115	542	(NA)	(NA)
1494	Native asphalt and bitumens <sup>3</sup> .....	50	349	(NA)	(NA)
1495	Pumice and pumicite <sup>3</sup> .....	111	338	(NA)	(NA)
1496	Talc, soapstone, pyrophyllite <sup>3</sup> .....	153	838	(NA)	(NA)
1497	Natural abrasives, except sand <sup>3</sup> .....	73	203	(NA)	(NA)
1498	Peat <sup>3</sup> .....	79	208	(NA)	(NA)
1499	Nonmetallic minerals, nec <sup>3</sup> .....	716	2,154	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>The cost of "coal purchased" is included with the cost of "other purchased fuels".

## FUELS; ELECTRIC ENERGY AND SELECTED SUPPLIES USED

United States, by Industry Group, 1958 and 1954, and by Industry, 1958—Continued

Fuel oil purchased		Gas purchased		Cost of other purchased fuels	Undistributed fuels cost	Electric energy				Ind. code
1,000 barrels	Cost (\$1,000)	Million cu. ft.	Cost (\$1,000)			Purchased		Generated		
						Million kwh	Cost (\$1,000)	Used (million kwh)	Sold (million kwh)	
4,521	18,405	73,653	15,262	17,569	23,998	3,326	46,491	435	(D)	14
8	44	12	6	81	268	22	422	...	...	1411
1	3	...	...	12	69	3	78	...	...	...
4	23	...	...	16	74	9	171	...	...	...
3	18	12	6	53	125	10	173	...	...	...
1,128	6,316	1,709	295	7,474	6,672	891	14,513	56	(D)	1421
947	5,170	1,471	225	5,997	5,048	673	10,881	54	(D)	...
94	564	26	10	375	171	80	1,309	...	...	...
87	582	212	60	1,102	1,453	138	2,323	2	...	...
1,050	5,454	1,642	623	8,117	10,340	862	14,099	32	...	1441
910	4,783	760	195	7,750	10,059	746	12,471	16	...	...
36	171	596	276	162	146	86	1,084	(D)	...	...
104	500	286	152	205	135	30	544	(D)	...	...
615	2,570	7,885	2,268	1,027	2,907	295	3,585	2	...	145
63	220	1,334	392	103	5	31	390	...	...	1452
100	371	87	22	209	488	10	264	(D)	...	1453
36	138	446	195	35	380	21	270	...	...	1454
186	845	2,844	830	342	140	120	1,194	(D)	...	1455
(NA)	(NA)	(NA)	(NA)	(NA)	324	30	396	...	...	1456
90	476	...	...	1	...	22	220	...	...	1457
140	520	3,174	829	337	1,570	61	851	(D)	...	1459
1,699	3,908	62,405	12,070	676	1,003	1,061	11,641	339	(D)	147
(NA)	(NA)	(NA)	(NA)	(NA)	281	43	554	...	...	1472
(NA)	(NA)	(NA)	(NA)	(NA)	563	41	594	(D)	...	1473
760	1,481	22,153	5,556	104	3	312	3,026	248	...	1474
902	2,244	972	253	180	110	609	6,729	...	...	1475
20	100	1,074	141	59	11	34	455	(D)	...	1476
7	25	38,105	6,094	305	16	2	45	69	(D)	1477
10	58	101	26	28	19	20	238	...	...	1479
21	113	...	...	194	72	2	51	...	...	148
18	95	...	...	102	62	1	32	...	...	1481
3	18	...	...	92	10	1	19	...	...	1482
(NA)	(NA)	(NA)	(NA)	(NA)	2,736	193	2,180	6	...	149
(NA)	(NA)	(NA)	(NA)	(NA)	166	8	118	...	...	1492
(NA)	(NA)	(NA)	(NA)	(NA)	336	14	206	...	...	1493
(NA)	(NA)	(NA)	(NA)	(NA)	79	18	270	...	...	1494
(NA)	(NA)	(NA)	(NA)	(NA)	270	3	68	...	...	1495
(NA)	(NA)	(NA)	(NA)	(NA)	291	51	547	...	...	1496
(NA)	(NA)	(NA)	(NA)	(NA)	181	1	22	(D)	...	1497
(NA)	(NA)	(NA)	(NA)	(NA)	174	2	34	...	...	1498
(NA)	(NA)	(NA)	(NA)	(NA)	1,239	96	915	(D)	...	1499

<sup>2</sup>Less than one-half of the unit of measure specified.<sup>3</sup>The quantity and cost of individual fuels were not obtained for this industry. All fuels costs, therefore, are shown as undistributed.



Table 4.—Fuels and Electric Energy Used in the Mineral Industries,

Code	Division, State, and major industry group	Total energy used (million kwh equivalent)	Fuels produced and used at same establishment for power or heat			Purchased fuels		
			Coal (1,000 short tons)	Crude petroleum (1,000 barrels)	Natural gas (million cu. ft.)	Total cost (\$1,000)	Coal	
							Quantity (1,000 short tons)	Cost (\$1,000)
	United States, total.....	404,935	662	651	759,110	274,943	1,707	13,659
10	Metal mining.....	27,383	...	...	...	37,986	1,052	9,358
11	Anthracite mining.....	3,881	212	...	...	4,062	101	438
12	Bituminous coal and lignite mining.....	14,903	450	...	...	23,536	90	390
13	Oil and gas extraction.....	310,313	...	651	759,110	130,652	(1)	(1)
14	Nonmetallic minerals mining.....	48,455	...	...	...	78,707	464	3,473
	DIVISION AND STATE							
	New England.....	711	...	...	...	2,220	6	94
10	Metal mining.....	2	...	...	...	8	...	...
14	Nonmetallic minerals mining.....	709	...	...	...	2,212	6	94
10 & 14	Maine.....	74	...	...	...	223	4	66
14	New Hampshire.....	34	...	...	...	115	(2)	3
10 & 14	Vermont.....	189	...	...	...	441	2	25
14	Massachusetts.....	223	...	...	...	792	...	...
14	Rhode Island.....	29	...	...	...	111	...	...
10 & 14	Connecticut.....	162	...	...	...	538	...	...
	Middle Atlantic, total.....	14,926	361	...	2,012	22,096	410	2,855
10	Metal mining.....	2,122	...	...	...	2,797	190	1,773
11	Anthracite mining.....	3,881	212	...	...	4,062	101	438
12	Bituminous coal mining.....	4,467	149	...	...	7,048	82	324
13	Oil and gas extraction.....	2,005	...	...	2,012	2,494	(1)	(1)
14	Nonmetallic minerals mining.....	2,249	...	...	...	5,695	27	320
	New York, total.....	2,766	...	...	119	4,554	162	1,550
10	Metal mining.....	1,572	...	...	...	2,243	155	1,499
13	Oil and gas extraction.....	326	...	...	119	329	(NA)	(NA)
14	Nonmetallic minerals mining.....	868	...	...	...	1,982	7	51
	New Jersey, total.....	655	...	...	...	1,492	10	101
10	Metal mining.....	64	...	...	...	54	1	11
14	Nonmetallic minerals mining.....	591	...	...	...	1,438	9	90
	Pennsylvania, total.....	11,505	361	...	2,083	16,050	238	1,204
10	Metal mining.....	499	...	...	...	500	(D)	(D)
11	Anthracite mining.....	3,881	212	...	...	4,062	101	438
12	Bituminous coal mining.....	4,467	149	...	...	7,048	82	324
13	Oil and gas extraction.....	1,679	...	...	1,893	2,165	(1)	(1)
14	Nonmetallic minerals mining.....	979	...	...	...	2,275	(D)	(D)
	East North Central.....	18,184	90	35	15,612	29,641	398	3,045
10	Metal mining.....	2,420	...	...	...	3,284	247	2,409
12	Bituminous coal mining.....	3,159	90	...	...	5,904	...	...
13	Oil and gas extraction.....	7,383	...	35	15,612	6,888	(NA)	(NA)
14	Nonmetallic minerals mining.....	5,222	...	...	...	13,565	151	754
	Ohio, total.....	2,907	2	3	215	8,645	9	83
12	Bituminous coal mining.....	1,387	2	...	...	3,996	...	...
13	Oil and gas extraction.....	344	...	3	215	708	(NA)	(NA)
10 & 14	Metal mining and Nonmetallic minerals mining.....	1,176	...	...	...	3,941	9	83
	Indiana, total.....	1,630	28	4	632	3,231	7	47
12	Bituminous coal mining.....	578	28	...	...	798	...	...
13	Oil and gas extraction.....	464	...	4	632	838	(1)	(1)
14	Nonmetallic minerals mining.....	588	...	...	...	1,595	7	47
	Illinois, total.....	8,647	60	28	(D)	9,239	49	317
12	Bituminous coal mining.....	1,194	60	...	...	1,110	...	...
13	Oil and gas extraction.....	5,956	...	28	(D)	4,432	(1)	(1)
10 & 14	Metal mining and Nonmetallic minerals mining.....	1,497	...	...	...	3,697	49	317
	Michigan, total.....	4,304	...	...	(D)	6,295	328	2,664
10	Metal mining.....	2,341	...	...	...	3,201	(D)	(D)
13	Oil and gas extraction.....	619	...	...	(D)	910	(1)	(1)
14	Nonmetallic minerals mining.....	1,344	...	...	...	2,184	(D)	(D)
	Wisconsin, total.....	696	...	...	...	2,231	5	52
10	Metal mining.....	79	...	...	...	56	3	30
14	Nonmetallic minerals mining.....	617	...	...	...	2,175	2	22

See footnotes at end of table.

by Divisions, States, and Major Industry Groups: 1958

Purchased fuels- Continued						Electric energy				
Fuel oil		Gas		Cost of other purchased fuels (\$1,000)	Undistributed fuels cost (\$1,000)	Purchased		Generated and used (million kwh)	Code	
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cu. ft.)	Cost (\$1,000)			Million kwh	Cost (\$1,000)			
14,271	68,358	237,724	43,474	91,410	58,042	16,393	201,055	4,329		
2,586	11,994	28,388	7,829	5,679	3,126	3,876	37,230	2,192	10	
286	1,614	...	...	1,631	379	564	7,325	68	11	
1,843	10,564	535	212	6,617	5,753	4,352	56,676	80	12	
5,035	25,781	135,148	20,171	59,914	24,786	4,275	53,333	1,554	13	
4,521	18,405	73,653	15,262	17,569	23,998	3,326	46,491	435	14	
55	344	7	5	681	1,096	83	1,484	(2)		
...	...	...	...	...	8	...	...	...	10	
55	344	7	5	681	1,088	83	1,484	(2)	14	
1	5	...	...	49	103	3	72	(2)	10 & 14	
(2)	3	...	...	4	105	3	73	(2)	14	
5	21	...	...	50	345	30	400	...	10 & 14	
9	55	7	5	358	374	23	461	...	14	
3	26	...	...	37	48	2	49	...	14	
36	234	...	...	183	121	22	429	(2)	10 & 14	
1,426	7,718	3,891	1,369	6,288	3,866	2,251	30,078	126		
178	937	...	...	82	5	337	3,661	...	10	
286	1,614	...	...	1,631	379	564	7,325	68	11	
600	3,537	176	104	1,561	1,522	845	11,263	43	12	
24	228	2,888	824	702	740	93	1,271	(2)	13	
338	1,402	827	441	2,312	1,209	412	6,558	15	14	
285	1,362	949	264	882	496	336	4,068	9		
114	682	...	...	57	5	173	1,651	...	10	
(2)	3	753	149	48	129	13	144	...	13	
171	677	196	115	777	362	150	2,273	9	14	
138	563	164	105	569	154	109	1,771	(2)		
10	36	...	...	7	...	37	513	...	10	
128	527	164	105	562	154	72	1,258	(2)	14	
1,003	5,793	2,778	1,000	4,837	3,216	1,806	24,239	117		
54	219	...	...	(D)	...	127	1,497	...	10	
286	1,614	...	...	1,631	379	564	7,325	68	11	
600	3,537	176	104	1,561	1,522	845	11,263	43	12	
24	225	2,135	675	654	611	80	1,127	(2)	13	
39	198	467	221	(D)	704	190	3,027	6	14	
1,445	8,374	2,566	865	8,752	8,487	1,985	28,667	380		
127	674	(D)	(D)	(D)	9	265	3,841	273	10	
522	2,828	34	10	2,147	919	802	11,060	16	12	
208	1,256	1,643	487	2,990	2,155	370	4,734	20	13	
588	3,616	(D)	(D)	(D)	5,404	548	9,032	71	14	
592	3,618	648	243	2,614	2,087	363	5,247	15		
361	1,894	21	6	1,454	642	225	2,593	7	12	
16	72	299	47	215	374	6	90	3	13	
215	1,652	328	190	945	1,071	132	2,564	5	10 & 14	
155	805	195	49	1,222	1,108	246	3,638	(D)		
52	308	...	...	323	167	152	2,059	(D)	12	
22	134	81	23	361	320	26	398	(2)	13	
81	363	114	26	538	621	68	1,181	...	14	
357	2,143	(D)	421	3,297	3,061	974	13,611	(D)		
109	626	13	4	370	110	425	6,408	(D)	12	
144	897	(D)	381	1,972	1,182	329	4,110	16	13	
104	620	112	36	955	1,769	220	3,093	33	10 & 14	
264	1,344	(D)	134	1,080	1,073	316	4,689	305		
125	648	(D)	(D)	178	...	201	2,791	273	10	
24	153	(D)	(D)	(D)	279	9	136	1	13	
115	543	241	95	(D)	794	106	1,762	31	14	
75	464	66	18	539	1,158	86	1,482	2		
2	14	...	...	7	5	50	828	...	10	
73	450	66	18	532	1,153	36	654	2	14	



Table 4.—Fuels and Electric Energy Used in the Mineral Industries,

Code	Division, State, and major industry group	Total energy used (million kwh equivalent)	Fuels produced and used at same establishment for power or heat			Purchased fuels		
			Coal (1,000 short tons)	Crude petroleum (1,000 barrels)	Natural gas (million cu. ft.)	Total cost (\$1,000)	Coal	
							Quantity (1,000 short tons)	Cost (\$1,000)
	West North Central.....	23,645	2	91	16,301	34,757	612	5,243
10	Metal mining.....	8,285	2	...	...	13,300	571	5,023
12	Bituminous coal and Lignite mining....	12,343	...	91	16,301	12,590	( <sup>1</sup> )	( <sup>1</sup> )
13	Oil and gas extraction.....	3,097	...	...	...	8,867	41	220
14	Nonmetallic minerals mining.....							
	Minnesota, total.....	7,824	...	...	...	13,385	554	4,954
10	Metal mining.....	7,475	...	...	...	12,163	554	4,953
14	Nonmetallic minerals mining.....	349	...	...	...	1,222	( <sup>2</sup> )	1
	Iowa, total.....	941	( <sup>2</sup> )	...	...	2,552	38	193
12	Bituminous coal mining.....	53	( <sup>2</sup> )	...	...	182	...	...
14	Nonmetallic minerals mining.....	888	...	...	...	2,370	38	193
	Missouri, total.....	1,305	( <sup>2</sup> )	...	2	3,060	3	25
10	Metal mining.....	346	...	...	...	308	1	6
12	Bituminous coal mining.....	76	( <sup>2</sup> )	...	...	167	...	...
13-14	Oil and gas extraction and Non-metallic minerals mining.....	883	...	...	2	2,585	2	19
	North Dakota, total.....	805	1	58	(D)	1,668	( <sup>2</sup> )	( <sup>2</sup> )
10, 12, 14	Metal mining, Lignite mining, and Nonmetallic minerals mining.....	140	1	...	...	350	( <sup>2</sup> )	( <sup>2</sup> )
13	Oil and gas extraction.....	665	...	58	(D)	1,318	( <sup>1</sup> )	( <sup>1</sup> )
	South Dakota, total.....	484	...	...	5	795	16	64
10	Metal mining.....	240	...	...	...	228	16	64
12-13	Lignite mining and Oil and gas extraction.....	7	( <sup>2</sup> )	...	5	24	...	...
14	Nonmetallic minerals mining.....	267	...	...	...	543	...	...
	Nebraska, total.....	1,457	...	13	(D)	1,884	1	7
13	Oil and gas extraction.....	1,212	...	13	(D)	1,047	( <sup>1</sup> )	( <sup>1</sup> )
10-14	Metal mining and Nonmetallic minerals mining.....	245	...	...	...	837	1	7
	Kansas, total.....	10,829	...	20	12,660	11,413	...	...
10	Metal mining.....	3	...	...	...	5	...	...
12	Bituminous coal mining.....	39	...	...	...	115	...	...
13	Oil and gas extraction.....	10,455	...	20	12,660	10,190	( <sup>1</sup> )	( <sup>1</sup> )
14	Nonmetallic minerals mining.....	346	...	...	...	1,057	...	...
	South Atlantic.....	14,697	132	...	9,193	19,711	102	844
10	Metal mining.....	276	...	...	...	446	( <sup>2</sup> )	5
12	Bituminous coal mining.....	3,932	132	...	...	4,995	2	10
13	Oil and gas extraction.....	3,409	...	...	9,193	1,172	( <sup>1</sup> )	( <sup>1</sup> )
14	Nonmetallic minerals mining.....	7,080	...	...	...	13,098	100	829
	Delaware and Maryland.....	346	( <sup>2</sup> )	...	...	1,057	(D)	(D)
10 & 13	Metal mining and Oil and gas extraction.....	4	...	...	...	15	...	...
12	Bituminous coal mining.....	52	( <sup>2</sup> )	...	...	180	...	...
14	Nonmetallic minerals mining.....	290	...	...	...	862	(D)	(D)
	Virginia, total.....	1,635	34	...	...	2,778	48	370
10	Metal mining.....	72	...	...	...	128	( <sup>2</sup> )	5
12	Bituminous coal mining.....	621	34	...	...	747	2	10
13	Oil and gas extraction.....	4	...	...	...	14	( <sup>1</sup> )	( <sup>1</sup> )
14	Nonmetallic minerals mining.....	938	...	...	...	1,889	46	355
	West Virginia, total.....	6,922	98	...	9,158	5,644	19	158
12	Bituminous coal mining.....	3,261	98	...	...	4,066	...	...
13	Oil and gas extraction.....	3,374	...	...	9,158	1,084	( <sup>1</sup> )	( <sup>1</sup> )
10-14	Metal mining and Nonmetallic minerals mining.....	287	...	...	...	494	19	158
	North Carolina.....	723	...	...	...	1,645	(D)	(D)
	South Carolina.....	282	...	...	...	705	(D)	(D)
	Georgia.....	1,880	...	...	...	3,301	1	7

See footnotes at end of table.

by Divisions, States, and Major Industry Groups: 1958-Continued

Purchased fuels--Continued						Electric energy			Code
Fuel oil		Gas		Cost of other purchased fuels (\$1,000)	Undistributed fuels cost (\$1,000)	Purchased		Generated and used (million kwh)	
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cu. ft.)	Cost (\$1,000)			Million kwh	Cost (\$1,000)		
2,266	10,112	15,268	3,761	9,449	6,192	1,254	18,503	857	
1,532	6,220	335	150	1,623	284	694	9,875	(D)	10
326	1,871	14,202	3,387	4,701	2,631	411	5,553	(D)	12
408	2,021	731	224	3,125	3,277	149	3,075	2	13
1,513	6,112	(D)	(D)	(D)	786	388	7,270	(D)	14
1,476	5,915	(D)	(D)	(D)	50	363	6,432	(D)	10
37	197	24	7	281	736	25	838	(2)	14
102	630	25	7	1,129	593	37	651	1	
13	73	...	...	32	77	4	96	...	12
89	557	25	7	1,097	516	33	555	1	14
181	749	(D)	(D)	(D)	1,193	296	3,234	(2)	
11	61	(D)	(D)	(D)	47	221	1,927	(2)	10
11	52	...	...	97	18	27	484	...	12
159	636	168	53	749	1,128	48	823	(2)	13-14
61	355	107	20	982	311	9	227	(D)	
34	158	60	15	94	83	8	206	(2)	10, 12, 14
27	197	47	5	888	228	1	21	(D)	13
30	188	440	151	152	240	72	784	(D)	
3	15	69	34	85	30	63	602	(D)	10
(2)	4	...	...	8	12	...	...	...	12-13
27	169	371	117	59	198	9	182	(2)	14
59	300	48	13	731	833	25	377	(2)	
31	177	44	11	334	525	13	146	(2)	13
28	123	4	2	397	308	12	231	(2)	10-14
320	1,778	14,194	3,395	4,004	2,236	427	5,960	33	
(2)	3	4	1	1	...	2	29	...	10
7	32	...	...	48	35	6	110	...	12
266	1,488	14,111	3,371	3,475	1,856	397	5,386	32	13
47	255	79	23	480	345	22	435	1	14
1,792	7,416	5,175	1,518	3,878	6,055	2,850	34,600	37	
62	213	5	2	145	81	96	1,092	...	10
299	2,079	186	100	1,367	1,439	1,635	20,012	17	12
3	15	960	139	378	640	25	370	13	13
1,428	5,109	4,024	1,277	1,988	3,895	1,094	13,126	7	14
58	318	(D)	(D)	384	291	37	736	1	
...	...	...	...	7	8	(2)	6	...	10 & 13
15	101	...	...	39	40	3	66	...	12
43	217	(D)	(D)	338	243	34	664	1	14
106	615	380	132	817	844	288	3,799	4	
11	60	...	...	60	3	35	356	...	10
27	171	14	7	282	277	156	2,316	3	12
...	...	...	...	...	14	...	...	...	13
68	384	366	125	475	550	97	1,127	1	14
294	2,001	1,142	237	1,446	1,802	1,543	18,542	29	
257	1,807	172	93	1,046	1,120	1,476	17,630	14	12
2	10	960	139	367	568	25	364	13	13
35	184	10	5	33	114	42	548	2	10-14
50	303	(D)	(D)	263	807	101	1,348	...	
41	228	(D)	(D)	104	256	28	399	...	
205	1,040	3,135	934	360	960	190	2,098	3	



Table 4.-Fuels and Electric Used in the Mineral Industries.

Code	Division, State, and major industry group	Total energy used (million kwh equivalent)	Fuels produced and used at same establishment for power or heat			Purchased fuels		
			Coal (1,000 short tons)	Crude petroleum (1,000 barrels)	Natural gas (million cu. ft.)	Total cost (\$1,000)	Coal	
							Quantity (1,000 short tons)	Cost (\$1,000)
	South Atlantic--Continued							
	Florida, total.....	2,909	...	...	35	4,581	(2)	(2)
10 & 14	Metal mining and Nonmetallic minerals mining.....	2,896	...	...	...	4,533	(2)	(2)
13	Oil and gas extraction.....	13	...	...	35	48	(1)	(1)
	East South Central.....	12,104	46	5	14,751	14,025	104	708
10	Metal mining.....	626	...	...	...	703	1	14
12	Bituminous coal mining.....	2,419	46	...	...	4,089	6	27
13	Oil and gas extraction.....	6,501	...	5	14,751	3,835	(1)	(1)
14	Nonmetallic minerals mining.....	2,558	...	...	...	5,308	97	667
	Kentucky, total.....	4,143	31	...	5,054	5,351	13	96
12	Bituminous coal mining.....	1,533	31	...	...	2,481	...	...
13	Oil and gas extraction.....	2,076	...	...	5,054	1,323	(1)	(1)
14	Nonmetallic minerals mining.....	534	...	...	...	1,547	13	96
	Tennessee, total.....	1,939	(2)	...	...	3,421	82	567
10	Metal mining.....	180	...	...	...	179	1	13
12	Bituminous coal mining.....	230	(2)	...	...	712	...	...
13	Oil and gas extraction.....	2	...	...	...	8	(1)	(1)
14	Nonmetallic minerals mining.....	1,527	...	...	...	2,522	81	554
	Alabama, total.....	1,491	15	...	202	2,444	8	39
10	Metal mining.....	446	...	...	...	1,614	(2)	1
12	Bituminous coal mining.....	656	15	...	...	896	6	27
13	Oil and gas extraction.....	189	...	...	202	388	(1)	(1)
14	Nonmetallic minerals mining.....	200	...	...	...	546	2	11
	Mississippi, total.....	4,531	...	5	9,495	2,809	1	6
13	Oil and gas extraction.....	4,234	...	5	9,495	2,116	(1)	(1)
14	Nonmetallic minerals mining.....	297	...	...	...	693	1	6
	West South Central.....	237,107	...	199	544,519	99,359	4	25
10	Metal mining.....	362	(2)	...	...	757	1	5
12	Bituminous coal and Lignite mining....	221,810	...	...	544,519	86,505	(1)	(1)
13	Oil and gas extraction.....	14,935	...	...	...	12,097	3	20
14	Nonmetallic minerals mining.....		...	...	...			
	Arkansas, total.....	3,750	...	3	7,483	2,186	(2)	1
10 & 12	Metal mining and Bituminous coal mining.....	170	(2)	...	...	355	(2)	1
13	Oil and gas extraction.....	3,348	...	3	7,483	1,309	(1)	(1)
14	Nonmetallic minerals mining.....	232	...	...	...	522	...	...
	Louisiana, total.....	47,946	...	2	90,209	27,581	(2)	5
13	Oil and gas extraction.....	42,370	...	2	90,209	24,036	(1)	(1)
14	Nonmetallic minerals mining.....	5,576	...	...	...	3,545	(2)	5
	Oklahoma, total.....	31,635	(2)	69	77,695	12,062	1	4
10 & 12	Metal mining and Bituminous coal mining.....	116	(2)	...	...	266	1	4
13	Oil and gas extraction.....	31,221	...	69	77,695	11,085	(1)	(1)
14	Nonmetallic minerals mining.....	298	...	...	...	711	...	...
	Texas, total.....	153,776	...	125	369,132	57,530	3	15
10 & 12	Metal mining and Lignite mining.....	76	...	...	...	136	...	...
13	Oil and gas extraction.....	144,871	...	125	369,132	50,075	(1)	(1)
14	Nonmetallic minerals mining.....	8,829	...	...	...	7,319	3	15
	Mountain.....	46,449	29	127	69,415	36,107	49	469
10	Metal mining.....	13,111	...	...	...	16,533	31	262
12	Bituminous coal and lignite mining....	457	29	...	...	458	...	...
13	Oil and gas extraction.....	26,924	...	127	69,415	11,666	(1)	(1)
14	Nonmetallic minerals mining.....	5,907	...	...	...	7,450	18	207
	Montana.....	2,879	2	59	(D)	2,288	1	7
10	Metal mining.....	1,117	...	...	...	753	1	7
12	Bituminous coal and Lignite mining....	26	2	...	...	38	...	...
13	Oil and gas extraction.....	1,594	...	59	(D)	1,130	(1)	(1)
14	Nonmetallic minerals mining.....	142	...	...	...	367	(2)	(2)

See footnotes at end of table.

by Divisions, States, and Major Industry Groups: 1958-Continued

Purchased fuels--Continued						Electric energy			Code
Fuel oil		Gas		Cost of other purchased fuels (\$1,000)	Undistributed fuels cost (\$1,000)	Purchased		Generated and used (million kwh)	
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cu. ft.)	Cost (\$1,000)			Million kwh	Cost (\$1,000)		
1,038	2,911	191	71	504	1,095	663	7,678	1	
1,037	2,906	191	71	493	1,063	663	7,678	1	10 & 14
1	5	...	...	11	32	...	...	...	13
744	3,784	5,385	1,097	4,463	3,973	1,342	16,915	26	
50	240	739	209	209	121	218	1,815	...	10
312	1,593	115	31	953	1,485	842	11,455	3	12
125	628	3,151	494	1,675	1,038	94	1,356	16	13
257	1,323	1,380	363	1,626	1,329	188	2,289	7	14
286	1,313	454	71	2,135	1,736	639	9,987	(D)	
188	853	35	8	760	860	558	8,626	2	12
35	120	418	56	671	476	48	705	9	13
63	340	1	7	704	400	33	656	(D)	14
188	941	1,089	278	722	913	239	2,139	1	
22	111	(D)	(D)	(D)	5	95	607	...	10
40	221	...	...	58	433	39	490	1	12
...	...	...	...	1	7	...	...	...	13
126	609	992	(D)	(D)	468	105	1,042	(2)	14
170	965	765	218	659	563	417	4,131	(D)	
28	129	(D)	(D)	(D)	116	123	1,208	...	10
84	519	80	23	135	192	245	2,339	...	12
18	98	40	8	146	136	14	176	(2)	13
40	219	(D)	(D)	(D)	119	35	408	(D)	14
100	565	3,077	530	947	761	47	658	7	
72	410	2,693	430	857	419	32	475	7	13
28	155	384	100	90	342	15	183	...	14
4,125	20,076	144,782	19,653	44,088	15,517	2,544	31,842	1,281	
37	212	46	12	211	317	85	760	...	10
3,789	18,636	102,392	13,076	41,752	13,041	2,213	27,607	1,214	12
299	1,228	42,344	6,565	2,125	2,159	246	3,475	67	13
46	250	2,568	344	729	862	88	1,208	3	14
10	60	...	...	34	260	17	241	...	10 & 12
17	93	2,393	304	544	368	47	622	2	13
19	97	175	40	151	234	24	345	1	14
2,326	11,727	44,291	6,345	7,007	2,497	204	3,151	348	
2,274	11,442	27,418	3,994	6,602	1,998	142	2,120	304	13
52	285	16,873	2,351	405	499	62	1,031	44	14
307	1,289	13,836	1,753	6,747	2,269	529	6,361	148	
22	123	(D)	(D)	(D)	51	32	425	...	10 & 12
220	886	13,630	1,702	6,459	2,038	465	5,487	148	13
65	280	(D)	(D)	(D)	180	32	449	...	14
1,446	6,810	84,087	11,211	29,605	9,889	1,723	21,122	782	
5	29	(D)	(D)	(D)	6	36	94	...	10 & 12
1,278	6,215	58,951	7,076	28,147	8,637	1,559	19,378	760	13
163	566	(D)	(D)	(D)	1,246	128	1,650	22	14
1,302	6,830	46,422	10,183	10,076	8,549	2,881	25,295	1,353	
608	3,479	27,249	7,454	2,689	2,649	2,116	15,957	1,093	10
25	133	...	...	206	119	111	1,517	1	12
392	2,104	7,052	819	5,665	3,078	343	4,363	166	13
277	1,114	12,121	1,910	1,516	2,703	311	3,458	93	14
62	347	(D)	668	587	679	439	2,662	3	
4	21	2,181	588	35	102	395	2,047	...	10
2	12	...	...	10	16	2	39	...	12
52	276	(D)	78	524	252	24	375	3	13
4	38	17	2	18	309	18	201	...	14



## MINERAL INDUSTRIES-SUMMARY AND INDUSTRY STATISTICS

Table 4.-Fuels and Electric Energy Used in the Mineral Industries,

Code	Division, State, and major industry group	Total energy used (million kwh equivalent)	Fuels produced and used at same establishment for power or heat			Purchased fuels		
			Coal (1,000 short tons)	Crude petroleum (1,000 barrels)	Natural gas (million cu. ft.)	Total cost (\$1,000)	Coal	
							Quantity (1,000 short tons)	Cost (\$1,000)
	Mountain--Continued							
	Idaho, total.....	580	...	...	...	1,256	5	55
10	Metal mining.....	394	...	...	...	749	4	46
12, 13, & 14	Bituminous coal mining, Oil and gas extraction, and Nonmetallic minerals mining.....	186	...	...	...	507	1	9
	Wyoming, total.....	7,175	7	39	14,141	4,464	1	10
10	Metal mining.....	186	...	...	...	464	(D)	(D)
12	Bituminous coal mining.....	92	7	...	...	125	...	...
13	Oil and gas extraction.....	5,925	...	39	14,141	2,943	(1)	(1)
14	Nonmetallic minerals mining.....	972	...	...	...	932	(D)	(D)
	Colorado, total.....	6,230	10	13	(D)	5,628	2	22
10	Metal mining.....	1,414	...	...	...	2,505	2	21
12	Bituminous coal mining.....	143	10	...	...	148	...	...
13	Oil and gas extraction.....	4,405	...	13	(D)	2,178	(1)	(1)
14	Nonmetallic minerals mining.....	268	...	...	...	797	(2)	1
	New Mexico, total.....	19,431	...	13	39,527	8,944	1	7
10	Metal mining.....	1,934	...	...	...	2,643	1	7
12	Bituminous coal mining.....	4	...	...	...	11	...	...
13	Oil and gas extraction.....	14,140	...	13	39,527	4,146	(1)	(1)
14	Nonmetallic minerals mining.....	3,353	...	...	...	2,144	...	...
	Arizona, total.....	4,579	...	...	...	5,482	1	8
10	Metal mining.....	4,411	...	...	...	5,050	1	8
12 & 13	Bituminous coal mining and Oil and gas extraction.....	17	...	...	...	69	...	...
14	Nonmetallic minerals mining.....	151	...	...	...	363	...	...
	Utah, total.....	4,722	10	3	1,191	6,200	22	191
10 & 14	Metal mining and Nonmetallic minerals mining.....	3,667	...	...	...	4,868	22	191
12	Bituminous coal mining.....	191	10	...	...	135	...	...
13	Oil and gas extraction.....	864	...	3	1,191	1,197	(1)	(1)
	Nevada.....	853	...	...	...	1,845	16	169
	Pacific.....	37,106	2	194	87,307	17,027	22	258
10	Metal mining.....	425	...	...	...	1,048	1	11
12	Bituminous coal mining.....	28	2	...	...	20	...	...
13	Oil and gas extraction.....	29,911	...	194	87,307	5,227	(1)	(1)
14	Nonmetallic minerals mining.....	6,742	...	...	...	10,732	21	247
	Washington, total.....	475	2	...	...	1,068	22	258
10	Metal mining.....	87	...	...	...	190	1	11
12	Bituminous coal mining.....	28	2	...	...	(D)	...	...
13	Oil and gas extraction.....	34	...	...	...	66	(1)	(1)
14	Nonmetallic minerals mining.....	326	...	...	...	792	21	247
	Oregon, total.....	345	...	...	...	1,046	...	...
10	Metal mining.....	50	...	...	...	194	...	...
13	Oil and gas extraction.....	8	...	...	...	27	(1)	(1)
14	Nonmetallic minerals mining.....	287	...	...	...	825	...	...
	California, total.....	36,286	...	194	87,307	14,913	...	...
10	Metal mining.....	288	...	...	...	664	...	...
13	Oil and gas extraction.....	29,869	...	194	87,307	5,134	(NA)	(NA)
14	Nonmetallic minerals mining.....	6,129	...	...	...	9,115	...	...

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

by Divisions, States, and Major Industry Groups: 1958-Continued

Purchased fuels--Continued						Electric energy				Code
Fuel oil		Gas		Cost of other purchased fuels (\$1,000)	Undistributed fuels cost (1,000)	Million kwh	Cost (\$1,000)	Generated and used (million kwh)		
Quantity (1,000 barrels)	Cost (\$1,000)	Quantity (million cu. ft.)	Cost (\$1,000)							
92	464	70	11	175	551	160	1,114	14		
44	218	14	7	90	388	152	1,041	13	10	
48	246	56	4	85	163	8	73	1	12, 13, & 14	
142	707	4,777	680	1,695	1,372	227	2,706	60		
1	3	173	42	(D)	209	22	197	(D)	10	
6	31	...	...	77	17	6	121	(D)	12	
93	543	2,067	240	1,408	752	172	1,999	59	13	
42	130	2,537	398	(D)	394	27	389	(D)	14	
151	835	(D)	856	1,688	2,227	337	4,000	16		
55	386	2,400	782	395	921	240	2,515	(D)	10	
8	45	...	...	37	66	26	474	(D)	12	
69	304	(D)	74	1,028	772	52	705	8	13	
19	100	...	...	228	468	19	306	(D)	14	
244	1,155	17,089	3,326	2,670	1,786	377	4,067	311		
90	503	4,827	1,530	387	216	88	952	130	10	
(2)	1	...	...	7	3	1	34	(2)	12	
82	465	2,913	352	2,265	1,064	87	1,154	93	13	
72	186	9,349	1,444	11	503	201	1,927	88	14	
179	1,105	9,415	2,545	1,354	470	889	5,789	554		
178	1,096	9,253	2,483	1,319	144	886	5,740	553	10	
(2)	1	...	...	4	64	(2)	9	(2)	12 & 13	
1	8	162	62	31	262	3	40	(2)	14	
241	1,225	8,941	2,097	1,722	965	268	3,190	383		
136	666	8,401	2,022	1,211	708	184	2,220	380	10 & 14	
9	43	...	...	75	17	76	849	(2)	12	
96	516	540	75	436	170	8	121	3	13	
191	992	...	...	185	499	184	1,767	12		
1,118	3,704	14,228	5,023	3,735	4,307	1,203	13,671	269		
78	412	10	4	167	454	118	1,101	25	10	
1	6	...	...	14	...	6	81	...	12	
168	1,043	2,860	907	1,849	1,428	730	7,964	71	13	
871	2,248	11,358	4,112	1,700	2,425	349	4,525	173	14	
37	228	103	35	239	308	50	453	19		
13	68	10	4	54	53	28	198	(D)	10	
1	1	...	...	19	...	6	81	...	12	
1	9	80	26	...	31	...	...	...	13	
22	150	13	5	166	224	16	174	(D)	14	
69	328	...	...	289	429	20	205	6		
11	83	...	...	5	106	2	14	4	10	
...	...	...	...	2	25	1	5	...	13	
58	245	...	...	282	298	17	186	2	14	
1,012	3,148	14,125	4,988	3,207	3,570	1,133	13,013	244		
54	261	...	...	108	295	88	889	(D)	10	
167	1,034	2,780	881	1,847	1,372	729	7,959	71	13	
791	1,853	11,345	4,107	1,252	1,903	316	4,165	(D)	14	

<sup>1</sup>The cost of coal is included with the cost of other purchased fuels.<sup>2</sup>Less than one-half of the unit of measure specified.



Table 5.-Supplies Used in the Mineral Industries in the United States, by Industry Group, 1958 and 1954, and for Selected Industries, 1958

Ind. code	Industry group and industry	Purchased supplies used <sup>1</sup>						
		Total delivered cost  (\$1,000)	Explosives <sup>2</sup>		Steel mill shapes and forms <sup>3</sup>		All other supplies (delivered cost) <sup>4</sup> (\$1,000)	Un- distributed supplies cost <sup>5</sup> (\$1,000)
			Quantity  (1,000 pounds)	Delivered cost  (\$1,000)	Quantity  (short tons)	Delivered cost  (\$1,000)		
	All mineral industries:							
	1958.....	2,320,093	<sup>6</sup> 367,920	<sup>6</sup> 46,982	<sup>6</sup> 569,654	<sup>6</sup> 78,046	<sup>6</sup> 457,356	1,737,709
	1954.....	1,866,196	<sup>6</sup> 309,473	<sup>6</sup> 50,663	<sup>6</sup> 501,785	<sup>6</sup> 55,572	<sup>6</sup> 381,632	1,378,329
10	Metal mining:							
	1958.....	282,120	<sup>6</sup> 136,743	<sup>6</sup> 18,733	<sup>6</sup> 130,509	<sup>6</sup> 26,207	<sup>6</sup> 223,827	13,353
	1954.....	229,787	<sup>6</sup> 125,570	<sup>6</sup> 21,177	<sup>6</sup> 144,263	<sup>6</sup> 23,012	<sup>6</sup> 165,594	20,004
1011	Iron ores.....	780,320	53,592	7,690	30,830	7,379	<sup>7</sup> 64,626	625
1021	Copper ores.....	86,537	50,355	5,244	71,692	11,386	69,503	404
1031	Lead and zinc ores.....	21,185	11,411	2,363	14,777	3,918	13,619	1,285
	Lead ores subindustry.....	12,996	6,513	1,328	8,019	3,112	7,422	1,134
	Zinc ores subindustry.....	8,189	4,898	1,035	6,758	806	6,197	151
104	Gold and silver ores.....	8,258	2,747	649	5,322	1,284	5,673	652
1042	Lode gold.....	<sup>8</sup> 5,917	2,290	451	3,002	606	<sup>8</sup> 4,578	282
1043	Placer gold.....	<sup>8</sup> 3,431	457	198	2,320	678	<sup>8</sup> 2,185	370
1044	Silver ores.....							
105	Bauxite.....	728	450	74	77	26	628	...
106	Ferroalloy ores.....	15,817	3,760	821	1,481	762	13,471	763
1062	Manganese ores.....	5,216	583	133	649	154	4,297	632
1064	Tungsten ores.....	1,385	242	48	139	31	1,266	40
1069	Ferroalloy ores, nec.....	9,216	2,935	640	693	577	7,908	91
108	Metal mining services.....	7,657	(NA)	(NA)	(NA)	(NA)	(NA)	7,657
109	Miscellaneous metal ores.....	<sup>7</sup> 62,854	14,428	1,892	6,330	1,452	<sup>7</sup> 57,543	1,967
1092	Mercury ores.....	<sup>8</sup> 1,462	311	73	124	24	<sup>8</sup> 1,161	204
1093	Titanium ores.....	<sup>9</sup> 3,252	2,210	334	1,263	276	<sup>9</sup> 2,633	9
1094	Uranium-radium-vanadium ores.....	57,027	11,879	1,479	4,941	1,151	53,004	1,393
1099	Metallic ores, nec.....	<sup>8</sup> 1,196	28	6	2	1	<sup>8</sup> 828	361
11	Anthracite mining:							
	1958.....	25,556	<sup>6</sup> 11,880	<sup>6</sup> 2,095	<sup>6</sup> 11,171	<sup>6</sup> 1,902	<sup>6</sup> 8,923	12,636
	1954.....	29,027	<sup>6</sup> 16,987	<sup>6</sup> 2,815	<sup>6</sup> 14,769	<sup>6</sup> 1,967	<sup>6</sup> 15,442	8,803
1111	Anthracite.....	16,403	11,880	2,095	11,171	1,902	<sup>10</sup> 8,923	3,483
1112	Anthracite stripping services.....	9,101	(NA)	(NA)	(NA)	(NA)	(NA)	9,101
1113	Anthracite mining services, nec.....	52	(NA)	(NA)	(NA)	(NA)	(NA)	52
12	Bituminous coal and lignite mining:							
	1958.....	354,363	<sup>6</sup> 219,297	<sup>6</sup> 26,154	<sup>6</sup> 427,974	<sup>6</sup> 49,937	<sup>6</sup> 224,606	53,666
	1954.....	260,851	<sup>6</sup> 166,916	<sup>6</sup> 26,671	<sup>6</sup> 342,753	<sup>6</sup> 30,593	<sup>6</sup> 200,596	2,991
1211	Bituminous coal.....	349,532	219,121	26,121	427,850	49,849	<sup>10</sup> 223,726	49,836
1212	Lignite.....	1,133	176	33	124	88	880	132
1213	Coal stripping services, nec.....	3,071	(NA)	(NA)	(NA)	(NA)	(NA)	3,071
1214	Coal mining services, nec.....	627	(NA)	(NA)	(NA)	(NA)	(NA)	627
13	Oil and gas extraction:							
	1958.....	1,358,530	(NA)	(NA)	(NA)	(NA)	(NA)	1,358,530
	1954.....	1,131,349	(NA)	(NA)	(NA)	(NA)	(NA)	1,131,349
14	Nonmetallic minerals mining:							
	1958.....	299,524	(NA)	(NA)	(NA)	(NA)	(NA)	299,524
	1954.....	215,182	(NA)	(NA)	(NA)	(NA)	(NA)	215,182

NA Not available.

<sup>1</sup>Except as indicated in footnote 7, excludes the cost of products purchased for resale without further processing. (This cost is included with supplies in many of the 1958 and 1954 minerals census tables.)<sup>2</sup>Excludes the cost of blasting accessories and breaking agents.<sup>3</sup>Includes such items as rails, wheels, track accessories, plates, pipe, tubing, piling, drill steel bars, other bars, roof bolts, sheets, strip, wire, wire products, and structural shapes.<sup>4</sup>Represents such items as drill bits, cement, parts for renewals and repairs, lubricants, purchased round and hewn woods products and stumps, lumber, and water purchased.<sup>5</sup>Detailed figures for the quantity and cost of supplies were not obtained for establishments in the Mineral Services Industries, the Oil and Gas Extraction Industries, the Nonmetallic Minerals Mining Industries, or for small establishments in the Metal Mining and Coal Mining Industries. The total cost of supplies for such establishments is shown as "Undistributed".<sup>6</sup>Represents only the sum of detailed figures for the Metal Mining and Coal Mining Industries for which separate figures on the use of explosives and steel mill shapes were obtained.<sup>7</sup>Includes the cost of products purchased for resale without further processing.<sup>8</sup>Includes the cost of minerals received from other establishments for preparation.<sup>9</sup>Includes the cost of minerals received from other establishments for preparation and the cost of purchases for resale without further processing.<sup>10</sup>The cost of round or hewn woods products and stumps included was, for the Anthracite Industry, \$1,138 thousand, and for the Bituminous Coal Industry, \$20,873 thousand.

INDUSTRY SUMMARY AND  
INDUSTRY STATISTICS





# Metal Mining

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Major Group 10,

Metal Mining. The separate industries included in this major group and the reports in which they appear are:

Report	Industries covered
MIC58(1)-10B--Iron Ores	1011--Iron Ores
MIC58(1)-10C--Copper, Lead, Zinc, Gold, and Silver Ores	1021--Copper Ores 1031--Lead and Zinc Ores 1042--Lode Gold 1043--Placer Gold 1044--Silver Ores
MIC58(1)-10D--Bauxite and Ferroalloy Ores, Except Vanadium	1051--Bauxite 1062--Manganese Ores 1064--Tungsten Ores 1069--Ferroalloy Ores, Except Vanadium, N.E.C.
MIC58(1)-10E--Metal Mining Services and Miscellaneous Metal Ores	1081--Metal Mining Stripping Services 1082--Metal Mining Services, Except Stripping 1092--Mercury Ores 1093--Titanium Ores 1094--Uranium-Radium-Vanadium Ores 1099--Metallic Ores, N.E.C.

In addition to the industries listed above, separate sub-industry figures are presented for the "Lead Ores," "Zinc Ores," "Chromium Ores," and "Molybdenum, Cobalt, and Other Ores" subindustries and for service subindustries in which establishments are classified on the basis of the primary industry served.

The metal mining industries represent establishments primarily engaged in mining, developing mines, or exploring for metallic ores. These ores are valued chiefly for the metals contained to be recovered for use as such or as constituents of alloys, chemicals, pigments, etc. This major group also includes all ore dressing and beneficiating operations whether performed at mills operated in conjunction with the mines served, or at mills, such as custom mills, operated separately. These include mills which crush, grind, wash, dry, sinter, or leach ore, or perform gravity separation or flotation operations. Magnesite and brucite operations are classified in Industry 1457, and dolomite operations in Industry 1421. Smelters and refineries are classified in Major Group 33, Primary Metal Industries, and establishments engaged in producing primary magnesium metal in Industry 3339. The operation of brine wells for the production of magnesium is classified in Major Group 28.

Exploration for metal ores by operators of the properties is included in this major group and establishments engaged only in such activities are classified according to type of ore expected to be found. Establishments primarily performing exploration on a contract, fee, or other basis are included in the metal mining services industries and classified by subindustry on the basis of the type of metal ore expected to be found.

The combined value of shipments and receipts in 1958 of all industries in Major Group 10 was \$1,836 million. Establishments in the Iron Ores Industry accounted for \$682

million, the Copper Ores Industry for \$458 million, and the Uranium-Radium-Vanadium Ores Industry for \$336 million, with these three industries accounting for more than 80 percent of the total value of shipments for the major group. Shipments of the Lead and Zinc Ores Industry amounted to \$121 million, with the Lead Ores Subindustry accounting for \$76 million and the Zinc Ores Subindustry for \$45 million. The Ferroalloy Ores Industry Group accounted for \$112 million, with the Manganese Ores Industry accounting for \$39 million; the Tungsten Ores Industry for \$14 million; the Chromium Ores Subindustry for \$6 million; and the Molybdenum, Cobalt, and Other Ores Subindustry for \$52 million. The Bauxite Industry accounted for \$17 million, the Titanium Ores Industry also for \$17 million, the Mercury Ores Industry for \$9 million, and the Metallic Ores, N.E.C., Industry for \$3 million. Establishments primarily engaged in metal mining services reported receipts of \$32 million, with \$10 million for establishments primarily engaged in metal mining stripping services, and \$22 million for establishments primarily engaged in other metal mining services.

These figures represent the gross value of shipments and receipts. Some of them contain duplication due to the inclusion of the value of minerals transferred from one establishment to other establishments in the same industry for preparation and to the inclusion of some purchases for resale. In order to eliminate this duplication, net shipments and receipts figures have been derived for each industry by subtracting from the gross shipments either the value of shipments of ores to preparation plants, or if the latter figure was not available, the cost of minerals received from other establishments. In these net shipments, the value of shipments of products which had been purchased for resale was also subtracted. For the metal mining industries as a whole, net shipments and receipts amounted to \$1,571 million. Net shipments and receipts for some of the major metal mining industries in 1958



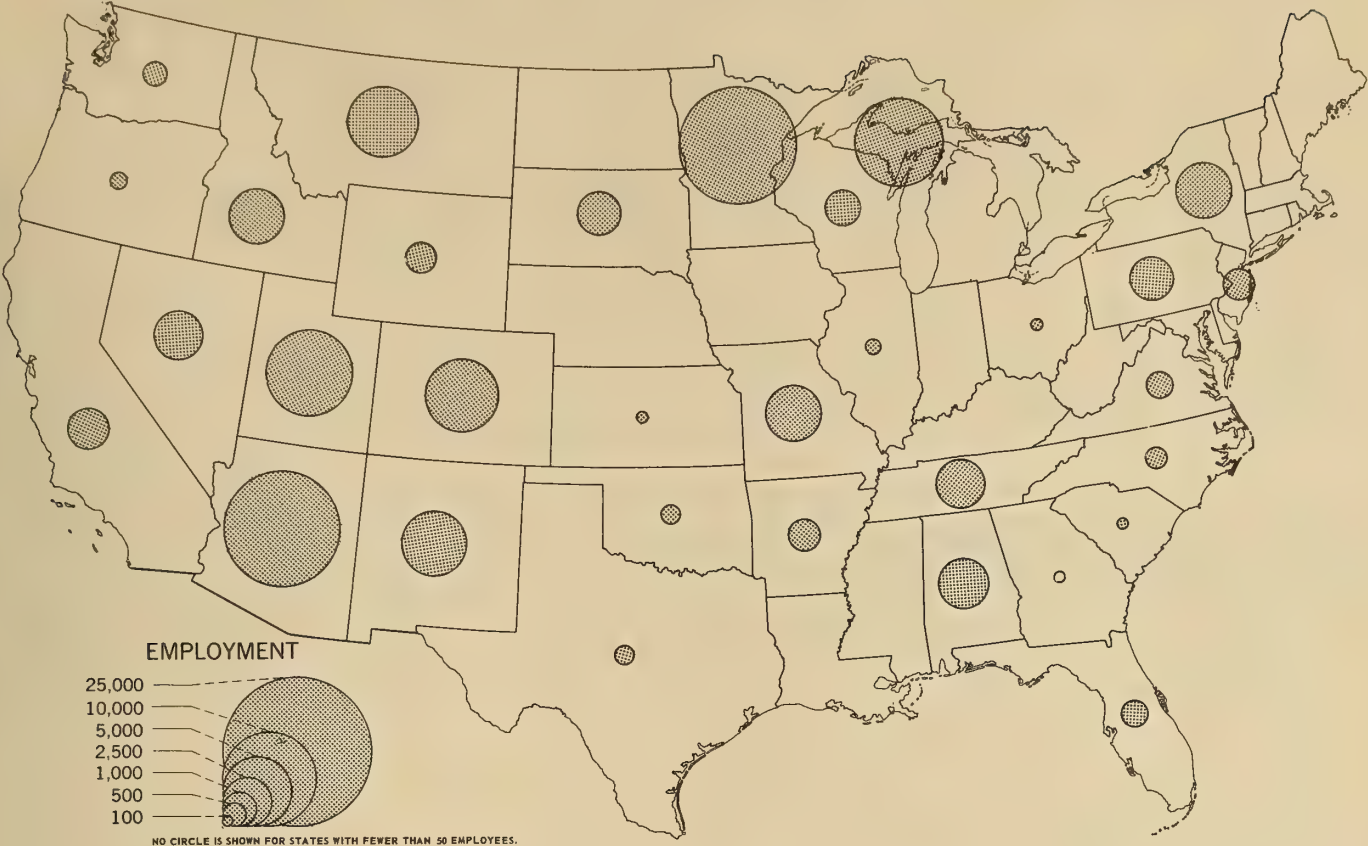
were: Iron Ores, \$635 million; Copper Ores, \$374 million; Uranium-Radium-Vanadium Ores, \$227 million; Lead and Zinc Ores, \$104 million; and Manganese Ores, \$34 million.

This report presents in table 1 comparative general statistics for all metal mining industries combined for the Census years 1860-1958. Table 2A presents general statistics by 3-digit industry groups for the United States and for geographic divisions and States. Table 2B shows some

cost, capital, and product details for major metal mining divisions and States. Table 2C shows number of establishments, employment, and value added in mining by major types of operation for the same geographic areas. In table 3, detailed statistics are presented for the United States by 4-digit industries and subindustries. Table 4 shows selected statistics for establishments classified by employment size for all metal mining and for 3-digit industry groups and includes the number of metal mining establishments by employment size and State.

# METAL MINING

Distribution of Employment by State: 1958



Employment : 1840-1958

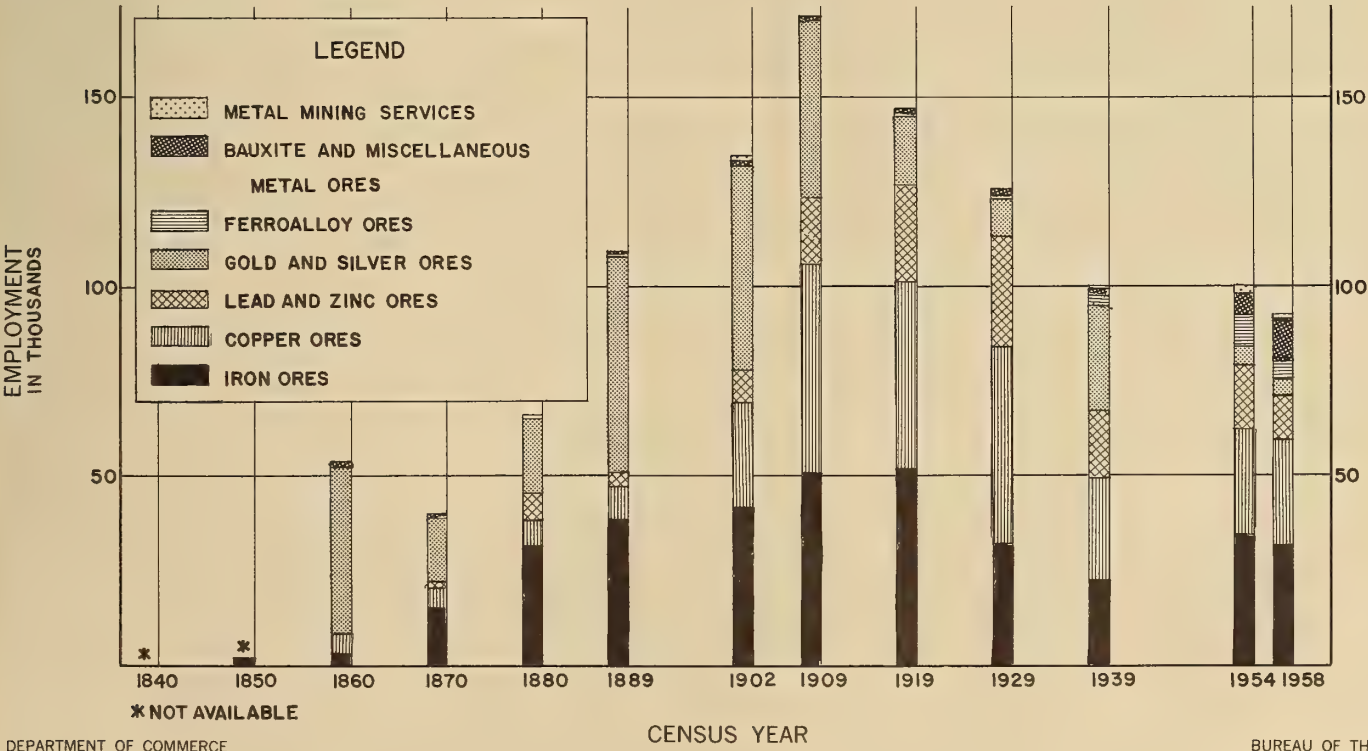






Table 1.--General Statistics for the Metal Mining Industries in the United States: 1958 and Earlier Years.

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries, see Table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. I.  
For all years prior to 1939, excludes contract service operations)

Year	Operating companies, number	Establishments, number		All employees		Production and development workers			Selected expenses (\$1,000)					Value of shipments and receipts (\$1,000)	Value of net shipments and receipts <sup>1</sup> (\$1,000)	Capital expenditures (\$1,000)	Energy used (million kwh equivalent)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	Value added in mining (\$1,000)	Supplies, purchases for resale, and purchased fuels and electricity	Minerals received for preparation	Contract work	Purchased machinery installed				
1958..	1,906	2,233	383	92,501	487,786	71,402	136,750	356,209	1,187,327	357,622	303,251	132,405	69,531	1,835,845	1,571,191	214,291	27,283
1954..	2,961	3,496	409	100,250	463,025	81,896	168,346	353,303	<sup>2</sup> 1,075,519	289,511	<sup>2</sup> 168,922	117,079	86,891	<sup>2</sup> 1,506,238	<sup>2</sup> 1,361,035	221,067	21,087
1939..	1,886	<sup>3</sup> 2,095	(NA)	100,135	153,917	89,791	190,835	127,111	416,956	97,805	(NA)	2,616	(NA)	(NA)	517,377	(NA)	14,628
1929 <sup>4</sup> ..	(NA)	1,799	(NA)	125,577	205,803	115,775	(NA)	178,319	496,335	130,024	(NA)	7,462	25,391	(NA)	633,821	(NA)	<sup>5</sup> 24,727
1919..	(NA)	2,404	(NA)	146,619	233,586	135,916	(NA)	209,199	402,098	136,639	6,609	5,924	(NA)	551,270	544,661	(NA)	<sup>6</sup> 33,532
1909 <sup>7</sup> ..	<sup>8</sup> 7,007	7,170	(NA)	171,044	149,971	160,842	(NA)	135,263	231,953	109,701	18,996	8,588	(NA)	369,238	350,242	(NA)	(NA)
1902 <sup>9</sup> ..	<sup>8</sup> 7,460	<sup>3</sup> 7,730	(NA)	133,838	108,659	<sup>10</sup> 123,227	(NA)	96,207	167,525	45,082	(NA)	3,142	(NA)	(NA)	215,749	(NA)	(NA)
1889..	(NA)	(NA)	(NA)	109,136	64,375	103,032	(NA)	58,368	131,055	<sup>11</sup> 23,310	(NA)	<sup>11</sup> 3,375	(NA)	(NA)	157,740	(NA)	(NA)
1880..	(NA)	<sup>3</sup> 4,048	(NA)	65,866	28,327	62,597	(NA)	(NA)	<sup>12</sup> 103,710	<sup>13</sup> 3,315	(NA)	(NA)	(NA)	(NA)	115,135	(NA)	(NA)
1870..	(NA)	2,969	(NA)	39,907	19,547	(NA)	(NA)	(NA)	41,183	6,042	(NA)	(NA)	(NA)	(NA)	47,225	(NA)	(NA)
1860..	(NA)	7,462	(NA)	53,576	26,681	(NA)	(NA)	(NA)	36,776	17,819	(NA)	(NA)	(NA)	54,595	(NA)	(NA)	(NA)

<sup>1</sup>Represents gross shipments and receipts less minerals transferred to other establishments for preparation, or less minerals received from other establishments for preparation, and less resales of products purchased for resale without further processing.<sup>2</sup>Excludes figures for the Uranium-Radium-Vanadium Ores Industry.<sup>3</sup>Represents number of mines.<sup>4</sup>Except for number of establishments includes data for 27 nonproducing establishments in the Nonmetallic Minerals Mining Industries.<sup>5</sup>Excludes data for nonproducing establishments.<sup>6</sup>Excludes purchased electricity. For 1929, the quantity of purchased electricity amounted to 8 percent of the total kwh equivalent of energy used.<sup>7</sup>Except for number of operating companies and number of establishments, excludes data for 19 establishments for which separate figures were not available.<sup>8</sup>Represents the sum of the number of operating companies in individual industries or available groups of industries. Probably includes some duplication due to the same company operating in more than one industry.<sup>9</sup>For 1902, data were obtained from the operators of metal mines on the average number of employees at contract service operations performed for them.

The total number of such employees was reported as 8,527.

<sup>10</sup>Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.<sup>11</sup>Excludes data for the Manganese Ores Industry.<sup>12</sup>Includes an estimated value added for the Placer Gold Industry.<sup>13</sup>Excludes costs for the Placer Gold Industry.



## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 2A.—General Statistics for the Metal Mining Industries for Industry Groups, by Divisions, States, and Alaska: 1958 and 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	1958											1954	
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	United States, total...	2,233	383	92,501	487,786	71,402	136,750	356,209	1,187,327	862,809	1,835,845	214,291	100,250	1,075,519
101	Iron ores.....	242	129	31,576	174,387	23,659	41,737	120,618	500,232	224,455	681,938	42,749	34,170	435,668
102	Copper ores.....	148	38	27,642	143,501	20,898	41,021	106,357	266,485	236,033	457,644	44,874	27,813	334,876
103	Lead and zinc ores.....	288	52	11,227	54,397	8,728	16,734	39,001	73,679	55,501	120,561	8,619	16,566	107,409
104	Gold and silver ores.....	379	20	3,939	19,994	3,411	7,071	17,064	37,896	13,717	48,389	3,224	4,831	35,354
105	Bauxite.....	29	9	705	3,606	502	905	2,290	15,430	4,152	18,174	1,408	852	12,827
106	Ferroalloy ores.....	294	33	5,438	26,711	4,380	8,335	19,455	74,255	43,811	111,521	6,545	8,078	107,399
108	Metal mining services....	95	23	2,184	12,097	1,973	4,274	10,624	22,862	10,785	32,384	1,263	3,059	26,703
109	Miscellaneous metal ores.	758	79	9,790	53,093	7,851	16,673	40,800	196,488	274,355	365,234	105,609	4,881	15,283
	DIVISION AND STATE													
	New England.....	4	1	33	185	31	61	174	440	76	516	...	269	1,697
	Middle Atlantic, total...	25	19	6,166	33,669	4,159	7,819	21,553	51,903	34,063	79,401	6,565	7,417	147,333
101	Iron ores.....	12	10	3,497	19,933	2,987	5,610	16,174	33,242	19,306	46,851	5,697	3,903	28,512
106	Ferroalloy ores.....	4	2	390	4,130	242	460	1,077	8,104	10,352	18,456	...	(NA)	(NA)
	New York.....	12	9	3,295	18,569	1,738	3,502	9,504	32,635	16,369	46,567	2,437	4,119	28,031
	Iron ores.....	4	3	1,051	6,786	872	1,864	5,411	16,472	7,470	21,576	2,366	(NA)	(NA)
108	Metal mining services	3	2	125	665	112	230	576	1,103	520	1,622	1	(NA)	(NA)
	New Jersey.....	5	5	1,029	5,106	838	1,339	4,078	8,667	2,353	10,088	932	1,711	9,398
	Pennsylvania.....	8	5	1,842	9,994	1,583	2,978	7,971	10,601	15,341	22,746	3,196	1,587	9,904
	East North Central.....	59	41	10,026	52,693	8,097	14,008	40,867	87,682	58,541	128,274	17,949	12,506	85,933
102 & 103	Copper, lead, and zinc ores.....	20	10	2,807	12,169	2,252	4,699	10,638	17,664	22,229	37,899	1,994	(NA)	(NA)
	Michigan.....	40	34	8,291	42,044	6,850	11,860	34,825	78,991	52,408	114,509	16,890	10,618	73,958
101	Iron ores.....	32	27	5,714	30,782	4,784	7,521	24,922	62,624	33,086	80,618	15,092	7,943	50,050
	Wisconsin.....	12	4	1,199	6,077	1,087	1,808	5,275	6,931	3,708	9,735	904	1,418	10,709
	West North Central.....	198	73	20,481	119,111	14,575	29,336	77,299	355,175	142,337	477,526	19,986	21,358	1320,488
108	Metal mining services	12	1	159	927	133	279	722	1,437	491	1,844	84	99	765
	Minnesota, total.....	89	63	15,166	87,335	10,146	18,722	52,657	292,231	114,138	393,579	12,790	15,489	278,618
101	Iron ores.....	84	62	15,048	86,602	10,054	18,524	52,129	291,127	113,803	392,209	12,721	15,398	278,064
108	Metal mining services	5	1	118	733	92	198	528	1,104	335	1,370	69	(NA)	(NA)
	Missouri.....	48	7	3,259	14,284	2,680	4,922	11,355	20,958	11,299	27,809	4,448	3,668	124,094
103	Lead and zinc ores...	8	4	2,852	12,256	2,307	4,208	9,566	17,725	8,031	23,381	2,375	3,451	22,708
	South Dakota.....	38	3	1,973	10,026	1,696	3,524	8,567	17,940	8,879	25,928	891	1,819	15,494
104	Gold and silver ores.	4	2	1,850	9,408	1,590	3,285	8,060	15,803	4,571	20,062	312	1,771	15,439
	Kansas.....	17	...	54	262	35	86	172	204	258	453	9	381	2,206
	South Atlantic.....	58	13	1,759	6,845	1,402	2,565	4,902	12,944	9,816	18,841	3,919	2,085	119,989
109	Miscellaneous metal ores.....	14	7	665	2,814	467	834	1,724	6,989	4,991	9,398	2,582	(NA)	(NA)
	Virginia.....	18	4	595	2,154	482	882	1,567	3,525	2,086	4,605	1,006	954	5,006
	Georgia.....	21	...	93	267	79	109	223	948	813	1,590	171	150	1,024
	East South Central.....	53	23	5,208	22,676	4,326	7,502	18,645	61,215	47,855	103,922	5,148	34,800	130,922
106	Ferroalloy ores.....	9	1	121	422	101	218	322	613	459	992	80	152	794
	Tennessee.....	20	9	2,490	9,808	1,972	3,438	7,584	17,953	10,253	26,472	1,734	918	3,630
106	Ferroalloy ores.....	9	1	121	422	101	218	322	613	459	992	80	152	794
	Alabama.....	33	14	2,702	12,785	2,339	4,031	10,984	43,133	37,514	77,235	3,412	3,882	127,292
101	Iron ores.....	30	12	2,547	12,168	2,192	3,721	10,427	41,586	36,749	75,015	3,320	3,840	27,060
	West South Central.....	81	16	1,501	(2)	1,019	(2)	(2)	(2)	(2)	(2)	(2)	32,653	125,525
105	Bauxite.....	18	8	632	3,381	447	813	2,182	15,023	3,607	17,241	1,389	806	12,383
106	Ferroalloy ores.....	19	4	239	552	206	366	491	1,478	302	1,643	137	145	881
	Arkansas:													
105	Bauxite.....	18	8	632	3,381	447	813	2,182	15,023	3,607	17,241	1,389	806	12,383
106	Ferroalloy ores.....	19	4	239	552	206	366	491	1,478	302	1,643	137	145	881
	Texas.....	14	3	347	2,003	227	565	1,215	5,767	1,376	6,988	155	...	...

See footnotes at end of table.

Table 2A.—General Statistics for the Metal Mining Industries for Industry Groups, by Divisions, States, and Alaska: 1958 and 1954—Continued

Ind. code	Industry group, division, and State	1958										1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	DIVISION AND STATE—Con.													
101	Mountain.....	1,394	175	44,680	238,238	35,721	71,164	182,693	570,739	550,203	968,300	152,642	45,403	<sup>1</sup> 504,531
102,	Iron ores.....	29	8	938	5,384	724	1,337	3,883	27,732	5,811	32,019	1,524	(NA)	(NA)
103,	Copper, lead, zinc,													
104,	gold, and silver													
108	ores.....	537	70	30,597	161,290	24,234	47,391	123,015	304,824	254,499	511,418	47,905	(NA)	(NA)
	Metal mining services	64	11	1,341	7,615	1,203	2,629	6,686	15,329	6,918	21,269	978	2,067	18,667
	Montana.....	118	11	5,356	26,363	3,775	6,937	17,309	34,330	48,757	78,531	4,556	7,535	<sup>1</sup> 38,505
102	Copper ores.....	8	3	3,685	17,006	2,456	4,177	10,488	20,413	34,634	52,508	2,539	(NA)	(NA)
103	Lead and zinc ores...	25	3	596	3,594	406	890	2,266	4,191	7,072	10,505	758	1,918	9,501
	Idaho.....	111	16	3,372	18,225	2,840	5,517	14,323	30,255	14,104	41,779	2,580	4,190	<sup>1</sup> 32,446
103	Lead and zinc ores...	42	8	1,946	10,243	1,578	2,846	7,384	11,701	6,785	17,638	848	2,522	18,162
104	Gold and silver ores.	44	5	907	5,182	819	1,679	4,608	9,606	3,203	11,975	834	1,129	9,186
109	Miscellaneous metal ores.....	10	1	81	415	56	124	276	727	462	925	264	(NA)	(NA)
	Wyoming.....	80	4	940	5,186	782	1,619	4,238	21,564	25,461	37,201	9,824	(D)	(D)
	Colorado.....	382	37	5,763	28,821	4,680	9,185	22,104	70,130	92,752	141,830	21,052	(D)	(D)
	Gold and silver ores.	59	3	229	922	203	424	820	1,867	1,869	3,102	634	4,337	<sup>4</sup> 1,892
	Metal mining services	24	4	317	1,728	302	656	1,623	2,773	1,268	3,967	74	(NA)	(NA)
	New Mexico.....	110	20	4,206	24,165	3,502	7,373	18,686	82,423	106,395	118,649	70,169	(NA)	(NA)
108	Metal mining services	6	2	215	1,597	207	487	1,550	2,630	1,507	4,062	75	(NA)	(NA)
	Arizona.....	202	37	14,682	77,922	11,604	23,590	60,045	185,566	86,370	243,456	28,480	12,693	<sup>1</sup> 174,384
102	Copper ores.....	56	17	13,072	70,509	10,158	20,694	53,592	165,569	72,408	211,936	26,041	11,492	165,668
103	Lead and zinc ores...	22	4	416	2,264	355	763	1,880	4,077	2,334	6,241	170	(NA)	(NA)
109	Miscellaneous metal ores.....	43	6	523	2,256	487	998	2,036	8,047	5,873	12,897	1,023	359	(NA)
	Utah:													
101	Iron ores.....	7	3	465	2,868	294	565	1,669	22,186	3,465	24,791	860	424	13,201
103	Lead and zinc ores...	29	6	1,145	6,167	899	1,872	4,515	9,557	11,580	20,630	507	1,686	13,512
108	Metal mining services	12	3	283	1,633	208	455	1,109	2,787	971	3,693	65	(NA)	(NA)
109	Miscellaneous metal ores.....	160	16	1,791	10,387	1,374	2,835	7,731	49,545	67,218	113,088	3,675	881	(NA)
	Nevada:													
101	Iron ores.....	14	4	160	940	145	296	836	2,496	1,695	3,635	556	122	998
104	Gold and silver ores.	54	2	195	1,028	169	341	872	1,946	504	2,191	259	182	992
108	Metal mining services	6	2	118	618	110	233	567	1,741	551	2,157	135		
109	Miscellaneous metal ores.....	23	2	168	786	154	317	723	1,811	483	2,144	150	989	<sup>1</sup> 10,568
	Pacific, total.....	361	22	2,628	14,241	2,052	4,257	9,948	47,212	19,654	58,714	8,152	3,814	<sup>1</sup> 39,003
101	Iron ores.....	3	1	351	1,993	252	477	1,329	15,934	3,294	18,217	1,011	(NA)	(NA)
102,	Copper, lead, zinc,													
103,	gold, and silver													
104,	ores.....	175	10	1,025	5,636	774	1,616	3,527	9,618	5,020	13,710	925	(NA)	(NA)
106	Ferroalloy ores.....	94	2	487	2,745	374	756	1,949	10,888	3,176	(D)	(D)	(NA)	(NA)
108	Metal mining services	4	1	79	427	73	163	384	968	406	1,308	66	64	455
109	Miscellaneous metal ores.....	85	8	686	3,440	579	1,245	2,759	9,804	7,758	(D)	(D)	(NA)	(NA)
	Washington.....	49	6	585	3,266	(D)	(D)	(D)	(D)	5,405	(D)	704	787	<sup>1</sup> 6,085
109	Miscellaneous metal ores.....	17	1	127	611	98	212	461	3,885	3,051	(D)	(D)	(NA)	(NA)
	Oregon.....	65	3	265	1,479	(D)	(D)	(D)	(D)	4,023	(D)	4,831	(NA)	(NA)
109	Miscellaneous metal ores.....	12	2	139	813	123	265	671	1,946	3,250	(D)	(D)	(NA)	(NA)
	California.....	247	13	1,778	9,496	1,393	2,896	6,535	30,009	10,226	37,618	2,617	(D)	(D)
101	Iron ores.....	3	1	351	1,993	252	477	1,329	15,934	3,294	18,217	1,011	(NA)	(NA)
109	Miscellaneous metal ores.....	56	5	420	2,016	358	768	1,627	3,973	1,457	5,154	276	(NA)	(NA)
	Alaska.....	121	4	548	3,776	493	1,310	3,141	5,448	3,338	7,778	1,008	960	8,623

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>Excludes data for the Uranium-Radium-Vanadium Ores Industry. Figures for the value of shipments and cost of minerals received for preparation were not collected in the 1954 Census of Mineral Industries. On the basis of reported cost data and statistics in the uranium chapter of the 1959 Minerals Yearbook (United States Department of the Interior, Bureau of Mines), it is estimated that the value added in mining in the Uranium-Radium-Vanadium Ores Industry in the United States in 1954 was between \$20 and \$40 million.

<sup>2</sup>Figures for West South Central are included with figures for West North Central.

<sup>3</sup>Data for one establishment in Kentucky is excluded from figures for the East South Central and included with those for the West South Central.

<sup>4</sup>Includes data for the Copper Ores Industry.



Table 2B.—Selected Expenditures, Crude Ore Mined, and Value of Net Shipments for the Metal Mining Industries by Industry Groups, for Divisions, Selected States, and Alaska: 1958

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	Selected expenses (\$1,000)					Capital expenditures (\$1,000)			Crude ore mined (1,000 short tons)	Value of net shipments of primary products <sup>1</sup> (\$1,000)
		Total	Supplies, purchases for resale, and purchased fuels and electricity	Minerals received for preparation	Contract work	Purchased machinery installed	Total	Development and exploration of mineral property	Plant, other construction, machinery, and equipment <sup>2</sup>		
	United States, total.....	862,809	357,622	303,251	132,405	69,531	214,291	44,228	170,063	xxx	xxx
101	Iron ores.....	224,455	111,767	64,662	29,510	18,516	42,749	10,913	31,836	122,378	<sup>3</sup> 624,841
102	Copper ores.....	236,033	105,807	89,011	22,024	19,191	44,874	9,720	35,154	111,957	357,244
103	Lead and zinc ores.....	55,501	28,112	21,517	2,952	2,920	8,619	4,160	4,459	14,405	99,702
104	Gold and silver ores.....	13,717	10,784	1,090	665	1,178	3,224	1,181	2,043	<sup>4</sup> 2,854	46,655
105	Bauxite.....	4,152	1,158	1,066	445	1,483	1,408	24	1,384	1,805	17,355
106	Ferroalloy ores.....	43,811	19,751	15,370	6,532	2,158	6,545	1,303	5,242	9,800	<sup>3</sup> 114,319
108	Metal mining services.....	10,785	8,988	xxx	432	1,365	1,263	xxx	1,263	xxx	<sup>5</sup> 32,263
109	Miscellaneous metal ores.....	274,355	71,255	110,535	69,845	22,720	105,609	16,927	88,682	<sup>6</sup> 5,880	<sup>3</sup> 249,249
DIVISIONS OR STATES											
	New England.....	76	66	...	10	...	...	...	...	xxx	xxx
	Middle Atlantic, total.....	34,063	17,829	(D)	(D)	2,840	6,565	(D)	(D)	xxx	xxx
101	Iron ores.....	19,306	12,425	547	3,683	2,651	5,697	2,711	2,986	8,211	(D)
106	Ferroalloy ores.....	10,352	1,195	(D)	(D)	...	...	...	...	(NA)	(NA)
	New York.....	16,369	9,673	(D)	(D)	333	2,437	(D)	(D)	xxx	xxx
101	Iron ores.....	7,470	(D)	(D)	(D)	166	2,366	(D)	(D)	5,176	(D)
	New Jersey.....	2,353	2,332	...	1	20	932	888	44	xxx	xxx
	Pennsylvania.....	15,341	5,824	4,887	2,143	2,487	3,196	1	3,195	xxx	xxx
	East North Central.....	58,541	<sup>7</sup> 44,207	( <sup>7</sup> )	10,732	3,602	17,949	4,832	13,117	xxx	xxx
102 & 103	Copper, lead, and zinc ores.....	22,229	<sup>7</sup> 20,401	( <sup>7</sup> )	1,202	626	1,994	398	1,596	7,018	(D)
	Michigan.....	52,408	<sup>7</sup> 38,492	( <sup>7</sup> )	10,582	3,334	16,890	4,076	12,814	xxx	xxx
101	Iron ores.....	33,086	<sup>7</sup> 20,875	( <sup>7</sup> )	9,442	2,769	15,092	3,809	11,283	10,273	(D)
	Wisconsin.....	3,708	<sup>7</sup> 3,371	( <sup>7</sup> )	112	225	904	646	258	xxx	xxx
	West North Central:										
	Minnesota.....	114,138	<sup>7</sup> 98,507	( <sup>7</sup> )	9,311	6,320	12,790	2,309	10,481	xxx	xxx
101	Iron ores.....	113,803	<sup>7</sup> 98,190	( <sup>7</sup> )	9,311	6,302	12,721	2,309	10,412	83,845	(D)
	Missouri.....	11,299	<sup>7</sup> 8,206	( <sup>7</sup> )	1,525	1,568	4,448	1,660	2,788	xxx	xxx
103	Lead and zinc ores.....	8,031	6,125	...	1,075	831	2,375	1,243	1,132	5,929	(D)
	South Dakota.....	8,879	<sup>7</sup> 7,587	( <sup>7</sup> )	429	863	891	102	789	xxx	xxx
	Gold and silver ores.....	4,571	4,129	...	5	437	312	...	312	1,824	20,062
	South Atlantic.....	9,816	<sup>7</sup> 6,622	( <sup>7</sup> )	528	2,666	3,919	844	3,075	xxx	xxx
109	Miscellaneous metal ores.....	4,991	<sup>7</sup> 2,919	( <sup>7</sup> )	118	1,954	2,582	113	2,469	(NA)	(NA)
	Virginia.....	2,086	<sup>7</sup> 1,462	( <sup>7</sup> )	193	431	1,006	649	357	xxx	xxx
	East South Central.....	47,855	<sup>7</sup> 41,279	( <sup>7</sup> )	3,244	3,332	5,148	1,007	4,141	xxx	xxx
	Tennessee.....	10,253	<sup>7</sup> 9,317	( <sup>7</sup> )	545	391	1,734	804	930	xxx	xxx
	Alabama.....	37,514	<sup>7</sup> 31,876	( <sup>7</sup> )	2,699	2,939	3,412	203	3,209	xxx	xxx
101	Iron ores.....	36,749	<sup>7</sup> 31,372	( <sup>7</sup> )	2,526	2,851	3,320	202	3,118	5,704	(D)
	West South Central:										
105	Bauxite.....	3,607	<sup>7</sup> 1,849	( <sup>7</sup> )	290	1,468	1,389	(D)	(D)	1,544	16,599
	Arkansas:										
105	Bauxite.....	3,607	<sup>7</sup> 1,849	( <sup>7</sup> )	290	1,468	1,389	(D)	(D)	1,544	16,599
	Texas.....	1,376	825	...	399	152	155	11	144	xxx	xxx
	Mountain.....	550,203	196,932	212,063	97,965	43,243	152,642	29,004	123,638	xxx	xxx
	Iron ores.....	5,811	<sup>7</sup> 2,008	( <sup>7</sup> )	3,027	776	1,524	706	818	5,647	32,010
102, 103, & 104	Copper, lead, zinc, gold, and silver ores.....	254,499	111,018	100,906	22,258	20,317	47,905	11,463	36,442	85,461	(NA)
108	Metal mining services.....	6,918	5,580	xxx	368	970	978	...	978	xxx	xxx
	Montana.....	48,757	13,714	32,126	1,073	1,844	4,556	323	4,233	xxx	xxx
102	Copper ores.....	34,634	9,980	22,853	533	1,268	2,539	...	2,539	10,107	32,987
103	Lead and zinc ores.....	7,072	<sup>7</sup> 6,647	( <sup>7</sup> )	79	346	758	19	739	322	6,671
	Idaho.....	14,104	9,221	2,147	1,865	871	2,580	1,300	1,280	xxx	xxx
103	Lead and zinc ores.....	6,785	<sup>7</sup> 6,510	( <sup>7</sup> )	77	198	848	587	261	873	15,607
104	Gold and silver ores.....	3,203	2,751	...	143	309	834	328	506	<sup>8</sup> 440	(D)
	Wyoming.....	25,461	<sup>7</sup> 15,637	( <sup>7</sup> )	9,104	720	9,824	4,431	5,393	xxx	xxx
	Colorado.....	92,752	38,430	32,949	8,740	12,633	21,052	1,923	19,129	xxx	xxx
	New Mexico.....	106,395	25,239	26,286	45,984	8,886	70,169	9,292	60,877	xxx	xxx

See footnotes at end of table.

Table 2B.—Selected Expenditures, Crude Ore Mined, and Value of Net Shipments for the Metal Mining Industries by Industry Groups, for Divisions, Selected States, and Alaska: 1958—Continued

Ind. Code	Industry group, division, and State	Selected expenses (\$1,000)					Capital expenditures (\$1,000)			Crude ore mined (1,000 short tons)	Value of net shipments of primary products <sup>1</sup> (\$1,000)
		Total	Supplies, purchases for resale, and purchased fuels and electricity	Minerals received for preparation	Contract work	Purchased machinery installed	Total	Development and exploration of mineral property	Plant, other construction, machinery, and equipment <sup>2</sup>		
	DIVISIONS OR STATES--Continued										
	Mountain--Continued										
	Arizona.....	86,370	763,845	(7)	16,906	5,619	28,480	9,669	18,811	xxx	xxx
102	Copper ores.....	72,408	753,643	(7)	14,469	4,296	26,041	8,936	17,105	56,525	205,266
103	Lead and zinc ores.....	2,334	71,798	(7)	493	43	170	34	136	384	(D)
109	Miscellaneous metal ores.....	5,873	75,036	(7)	517	320	1,023	554	469	6,222	(D)
	Utah:										
101	Iron ores.....	3,465	998	...	1,959	508	860	291	569	3,994	24,791
103	Lead and zinc ores.....	11,580	711,240	(7)	201	139	507	176	331	522	(D)
109	Miscellaneous metal ores.....	67,218	15,654	44,930	4,337	2,297	3,675	809	2,866	1,403	66,737
	Nevada:										
101	Iron ores.....	1,695	7553	(7)	978	164	556	414	142	9,665	3,626
	Pacific, total.....	19,654	712,364	(7)	4,186	3,104	8,152	1,360	6,792	xxx	xxx
101	Iron ores.....	3,294	1,107	...	461	1,726	1,011	(D)	(D)	3,126	18,217
102, 103, & 104	Copper, lead, zinc, gold, and silver ores.....	5,020	4,365	2	386	267	7925	244	7681	xxx	xxx
106	Ferroalloy ores.....	3,176	2,124	196	395	461	(D)	285	(D)	xxx	xxx
109	Miscellaneous metal ores.....	7,758	74,234	(7)	2,936	588	(D)	829	(D)	xxx	xxx
	Washington.....	5,405	74,282	(7)	873	250	704	215	489	xxx	xxx
	Oregon.....	4,023	1,302	89	2,230	402	4,831	682	4,149	xxx	xxx
	California.....	10,226	6,484	207	1,083	2,452	2,617	463	2,154	xxx	xxx
101	Iron ores.....	3,294	1,107	...	461	1,726	1,011	(D)	(D)	3,126	18,217
109	Miscellaneous metal ores.....	1,457	71,209	(7)	60	188	276	39	237	6,158	5,081
	Alaska.....	3,338	2,237	...	575	526	1,008	551	457	xxx	xxx

D Withheld to avoid disclosing data for individual companies.

Revised.

NA Not available.

<sup>1</sup>Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.<sup>2</sup>Represents expenditures during the year for both new and used plant and equipment.<sup>3</sup>Represents net shipments by all industries.<sup>4</sup>Represents lode ores only. In addition, 29,291 thousand cubic yards of placer gravels were washed in the United States to recover gold and silver.<sup>5</sup>Represents receipts for metal mining services by all industries.<sup>6</sup>Represents mercury and uranium-vanadium ores only. In addition, for the United States, 13,244 thousand short tons of crude titanium ores were mined for processing, and small quantities of antimony ores, beryllium ores, platinum sands, rare earths, and zirconium.<sup>7</sup>The cost of minerals received for preparation is combined with the cost of supplies, purchases for resale, and purchased fuels and electricity.<sup>8</sup>Represents silver ores only.<sup>9</sup>Represents quantity of net shipments.



Table 2C.—Number of Establishments, Employment, and Value Added for the Metal Mining Industries, Except Service Industries, by Type of Operation for Industry Groups and Divisions, Selected States, and Alaska: 1958

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of estab- lish- ments, total	Producing establishments										Non- produc- ing estab- lish- ments
			Total	Mining only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants	
				Total	Under- ground mines	Open- pit mines	Combi- nation methods and other methods	Total	Under- ground mines	Open- pit mines	Combi- nation methods and other methods		
	United States: Number of establishments..... Number of employees..... Value added in mining.....\$1,000..	2,138 90,317  1,164,465	1,525 88,173  1,168,399	1,017 27,462  385,977	634 16,524  193,320	358 7,955  164,230	25 2,983  28,427	435 50,482  648,650	141 25,414  228,585	273 22,746  372,240	21 2,322  47,825	73 10,229  133,772	613 2,144  ( <sup>1</sup> )
101	IRON ORES: Number of establishments..... Number of employees..... Value added in mining.....\$1,000..	242 31,576  500,232	213 31,085  501,815	95 11,472  188,282	36 8,456  87,603	59 3,016  100,679	... ...  ...	110 17,769  255,929	11 4,779  41,076	97 (D)  (D)	2 (D)  (D)	8 1,844  57,604	29 491  ( <sup>1</sup> )
102	COPPER ORES: Number of establishments..... Number of employees..... Value added in mining.....\$1,000..	148 27,642  266,485	85 27,304  267,560	52 8,547  (D)	31 2,067  15,881	19 (D)  (D)	2 (D)  (D)	26 14,059  168,545	11 6,255  47,381	14 (D)  (D)	1 (D)  (D)	7 4,698  (D)	63 338  ( <sup>1</sup> )
103	LEAD AND ZINC ORES: Number of establishments..... Number of employees..... Value added in mining.....\$1,000..	288 11,227  73,679	171 10,807  74,907	117 2,402  17,174	102 2,392  17,128	12 3  33	3 7  13	45 8,034  53,639	41 7,848  52,928	1 (D)  (D)	3 (D)  (D)	9 371  4,094	117 420  ( <sup>1</sup> )
104	GOLD AND SILVER ORES: Number of establishments..... Number of employees..... Value added in mining.....\$1,000..	379 3,939  37,896	192 3,576  37,806	106 (D)  (D)	74 191  2,684	31 (D)  (D)	1 (D)  (D)	85 3,339  34,660	26 2,805  28,844	55 400  5,145	4 134  671	1 (D)  (D)	187 363  90
105	BAUXITE: Number of establishments..... Number of employees..... Value added in mining.....\$1,000..	29 705  15,430	28 (D)  (D)	20 (D)  (D)	3 (D)  (D)	16 250  4,057	1 (D)  (D)	2 (D)  (D)	... ...  ...	2 (D)  (D)	... ...  ...	6 (D)  (D)	1 (D)  (D)
106	FERROALLOY ORES: Number of establishments..... Number of employees..... Value added in mining.....\$1,000..	294 5,438  74,255	241 5,218  74,036	142 1,005  13,872	31 677  5,625	105 306  8,031	6 22  216	83 (D)  (D)	25 2,633  35,893	50 575  8,709	8 (D)  (D)	16 (D)  (D)	53 220  219
109	MISCELLANEOUS METAL ORES: Number of establishments..... Number of employees..... Value added in mining.....\$1,000..	758 9,790  196,488	595 (D)  (D)	485 (D)  (D)	357 (D)  (D)	116 370  9,412	12 252  3,673	84 3,498  84,903	27 1,094  22,463	54 (D)  (D)	3 (D)  (D)	26 2,704  35,349	163 (D)  (D)
	DIVISIONS AND STATES												
	New England: Number of establishments..... Number of employees..... Value added in mining.....\$1,000..	3 233  2440	1 (D)  (D)	... ...  ...	... ...  ...	... ...  ...	... ...  ...	1 (D)  (D)	... ...  ...	1 (D)  (D)	... ...  ...	... ...  ...	2 (D)  (D)
	Middle Atlantic: Number of establishments..... Number of employees..... Value added in mining.....\$1,000..	22 26,010  250,649	21 (D)  (D)	1 (D)  (D)	1 (D)  (D)	... ...  ...	... ...  ...	14 (D)  (D)	10 3,174  22,618	2 (D)  (D)	2 (D)  (D)	6 (D)  (D)	1 (D)  (D)
101	Iron ores: Number of establishments..... Number of employees..... Value added in mining.....\$1,000..	12 3,497  33,242	12 3,497  33,242	1 (D)  (D)	1 (D)  (D)	... ...  ...	... ...  ...	9 (D)  (D)	6 2,382  19,182	1 (D)  (D)	2 (D)  (D)	2 (D)  (D)	... ...  ...
106	Ferroalloy ores: Number of establishments..... Number of employees..... Value added in mining.....\$1,000..	4 390  8,104	4 390  8,104	... ...  ...	... ...  ...	... ...  ...	... ...  ...	... ...  ...	... ...  ...	... ...  ...	... ...  ...	4 390  8,104	... ...  ...

See footnotes at end of table.

Table 2C.—Number of Establishments, Employment, and Value Added for the Metal Mining Industries, Except Service Industries, by Type of Operation for Industry Groups and Divisions, Selected States, and Alaska: 1958—Continued

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments										Non-producing establishments
			Total	Mining only				Mines with preparation plants				Separately operated preparation plants	
				Total	Under-ground mines	Open-pit mines	Combination methods and other methods	Total	Under-ground mines	Open-pit mines	Combination methods and other methods		
101	DIVISION AND STATE—Con.												
	Middle Atlantic—Continued												
	New York:												
	Number of establishments.	9	8	1	1	...	...	6	3	2	1	1	1
	Number of employees.....	33,170	(D)	(D)	(D)	...	...	(D)	721	(D)	(D)	(D)	(D)
	Value added in mining.....\$1,000..	31,532	(D)	(D)	(D)	...	...	(D)	5,473	(D)	(D)	(D)	(D)
	Iron ores:												
	Number of establishments.	4	4	1	1	...	...	3	1	1	1	...	...
	Number of employees.....	1,051	1,051	(D)	(D)	...	...	(D)	(D)	(D)	(D)	...	...
	Value added in mining.....\$1,000..	16,472	16,472	(D)	(D)	...	...	(D)	(D)	(D)	(D)	...	...
	New Jersey:												
	Number of establishments.	5	5	...	...	...	...	5	4	...	1	...	...
Number of employees.....	21,029	21,029	...	...	...	...	21,029	(D)	...	(D)	...	...	
Value added in mining.....\$1,000..	28,667	28,667	...	...	...	...	28,667	(D)	...	(D)	...	...	
102 & 103	Pennsylvania:												
	Number of establishments.	8	8	...	...	...	...	3	3	...	...	5	...
	Number of employees.....	1,811	1,811	...	...	...	...	(D)	(D)	...	...	(D)	...
	Value added in mining.....\$1,000..	10,450	10,450	...	...	...	...	(D)	(D)	...	...	(D)	...
	East North Central:												
	Number of establishments.	57	44	30	28	2	...	7	4	3	...	7	13
	Number of employees.....	(D)	(D)	(D)	6,924	(D)	...	(D)	(D)	(D)	...	438	108
	Value added in mining.....\$1,000..	(D)	(D)	(D)	67,654	(D)	...	(D)	(D)	(D)	...	538	734
	Copper, lead, and zinc ores:												
	Number of establishments.	20	13	6	6	...	...	3	2	1	...	4	7
	Number of employees.....	2,807	2,781	(D)	(D)	...	...	(D)	(D)	(D)	...	(D)	26
	Value added in mining.....\$1,000..	17,664	17,708	(D)	(D)	...	...	(D)	(D)	(D)	...	(D)	(1)
101	Michigan:												
	Number of establishments.	38	34	24	22	2	...	6	3	3	...	4	4
	Number of employees.....	28,291	28,214	(D)	5,703	(D)	...	2,011	(D)	(D)	...	(D)	77
	Value added in mining.....\$1,000..	278,991	278,190	(D)	60,376	(D)	...	(D)	(D)	(D)	...	(D)	801
	Iron ores												
	Number of establishments.	32	28	22	20	2	...	4	1	3	...	2	4
	Number of employees.....	5,714	5,637	(D)	(D)	(D)	...	(D)	(D)	(D)	...	(D)	77
	Value added in mining.....\$1,000..	62,624	61,823	(D)	(D)	(D)	...	(D)	(D)	(D)	...	(D)	801
	Wisconsin:												
	Number of establishments.	12	5	4	4	...	...	...	...	...	...	1	7
	Number of employees.....	21,199	(D)	1,140	1,140	...	...	...	...	...	...	(D)	(D)
	Value added in mining.....\$1,000..	26,931	(D)	6,792	6,792	...	...	...	...	...	...	(D)	(D)
101	West North Central:												
	Number of establishments.	186	147	70	20	49	1	74	14	58	2	3	39
	Number of employees.....	320,313	16,933	(D)	(D)	2,407	(D)	13,130	5,839	(D)	(D)	(D)	463
	Value added in mining.....\$1,000..	(D)	331,790	(D)	(D)	76,066	(D)	219,687	49,756	(D)	(D)	(D)	(1)
	Minnesota, (Iron ores):												
	Number of establishments.	84	71	15	...	15	...	54	8	46	...	2	13
	Number of employees.....	315,048	(D)	2,345	...	2,345	...	(D)	(D)	6,992	...	(D)	(D)
	Value added in mining.....\$1,000..	291,127	292,255	75,583	...	75,583	...	(D)	(D)	168,439	...	(D)	(1)
	Missouri:												
	Number of establishments.	41	31	15	1	14	...	16	4	11	1	...	10
	Number of employees.....	3,218	3,143	53	(D)	(D)	...	3,090	(D)	80	(D)	...	75
	Value added in mining.....\$1,000..	20,625	21,380	347	(D)	(D)	...	21,033	(D)	796	(D)	...	(1)
103	Lead and zinc ores:												
	Number of establishments.	8	5	1	1	...	...	4	3	...	1	...	3
	Number of employees.....	2,852	2,845	(D)	(D)	...	...	(D)	(D)	...	(D)	...	7
	Value added in mining.....\$1,000..	17,725	17,726	(D)	(D)	...	...	(D)	(D)	...	(D)	...	(1)

See footnotes at end of table.



Table 2C.—Number of Establishments, Employment, and Value Added for the Metal Mining Industries, Except Service Industries, by Type of Operation for Industry Groups and Divisions, Selected States, and Alaska: 1958—Continued

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments										Non-producing establishments	
			Total	Mining only				Mines with preparation plants				Separately operated preparation plants		
				Total	Under-ground mines	Open-pit mines	Combination methods and other methods	Total	Under-ground mines	Open-pit mines	Combination methods and other methods			
109	DIVISION AND STATE—Con.													
	West North Central—Continued													
	South Dakota:													
	Number of establishments.	38	32	29	9	19	1	2	1	...	1	1	6	
	Number of employees.....	1,973	1,961	(D)	40	11	(D)	(D)	(D)	...	(D)	(D)	12	
	Value added in mining.....\$1,000..	17,940	17,912	(D)	350	142	(D)	(D)	(D)	...	(D)	(D)	28	
	South Atlantic:													
	Number of establishments.	54	44	12	1	11	...	27	6	21	...	5	10	
	Number of employees.....	1,711	(D)	32	(D)	(D)	...	(D)	(D)	760	...	(D)	(D)	
	Value added in mining.....\$1,000..	12,612	(D)	308	(D)	(D)	...	(D)	(D)	7,871	...	(D)	(D)	
	Miscellaneous metal ores:													
	Number of establishments.	14	10	...	...	...	...	8	...	8	...	2	4	
	Number of employees.....	665	658	...	...	...	...	(D)	...	(D)	...	(D)	7	
	Value added in mining.....\$1,000..	6,989	7,002	...	...	...	...	(D)	...	(D)	...	(D)	(1)	
	Virginia:													
	Number of establishments.	16	12	3	1	2	...	9	4	5	...	...	4	
	Number of employees.....	2,595	2,562	247	(D)	(D)	...	515	(D)	(D)	...	...	33	
	Value added in mining.....\$1,000..	23,525	23,551	2291	(D)	(D)	...	3,260	(D)	(D)	...	...	(1)	
	East South Central:													
	Number of establishments.	50	48	14	6	8	...	32	6	25	1	2	2	
	Number of employees.....	5,003	(D)	1,270	1,229	41	...	3,238	(D)	372	(D)	(D)	(D)	
	Value added in mining.....\$1,000..	59,420	(D)	8,852	8,643	209	...	(D)	(D)	3,275	(D)	(D)	(D)	
	Tennessee:													
Number of establishments.	18	17	6	3	3	...	10	4	5	1	1	1		
Number of employees.....	2,490	(D)	(D)	(D)	(D)	...	(D)	2,113	34	(D)	(D)	(D)		
Value added in mining.....\$1,000..	217,953	(D)	(D)	(D)	(D)	...	(D)	16,087	257	(D)	(D)	(D)		
Alabama:														
Number of establishments.	32	31	8	3	5	...	22	2	20	...	1	1		
Number of employees.....	2,702	(D)	(D)	(D)	(D)	...	(D)	(D)	338	...	(D)	(D)		
Value added in mining.....\$1,000..	243,133	(D)	(D)	(D)	(D)	...	(D)	(D)	3,018	...	(D)	(D)		
West South Central:														
Number of establishments.	79	59	39	18	19	2	13	3	10	...	7	20		
Number of employees.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	(D)	(D)		
Value added in mining.....\$1,000..	23,767	23,766	15,302	(D)	4,506	(D)	6,762	194	6,568	...	1,702	1		
105	Bauxite:													
	Number of establishments.	18	17	11	3	7	1	1	...	1	...	5	1	
	Number of employees.....	632	(D)	(D)	(D)	211	(D)	(D)	...	(D)	...	(D)	(D)	
	Value added in mining.....\$1,000..	15,023	(D)	(D)	(D)	3,864	(D)	(D)	...	(D)	...	(D)	(D)	
	Mountain:													
	Number of establishments.	1,330	946	759	522	219	18	149	58	78	13	38	384	
	Number of employees.....	43,339	42,189	14,061	6,550	4,808	2,703	21,235	11,182	8,525	1,528	6,893	1,150	
	Value added in mining.....\$1,000..	555,410	557,920	194,325	99,499	76,777	18,049	300,977	118,623	137,277	45,077	62,618	(1)	
101	Iron ores:													
	Number of establishments.	29	26	23	1	22	...	3	...	3	...	...	3	
	Number of employees.....	938	938	(D)	(D)	588	...	(D)	...	(D)	...	...	...	
	Value added in mining.....\$1,000..	27,732	28,263	(D)	(D)	24,158	...	(D)	...	(D)	...	...	(1)	
102 103 104	Copper, lead, zinc, gold, and silver ores:													
	Number of establishments.	537	309	208	150	53	5	89	43	41	5	12	228	
	Number of employees.....	30,597	29,846	9,228	3,012	3,743	2,473	16,432	8,471	7,860	101	4,186	751	
	Value added in mining.....\$1,000..	304,824	306,609	(D)	28,373	42,046	(D)	(D)	69,288	(D)	681	28,403	(1)	

See footnotes at end of table.

Table 2C.—Number of Establishments, Employment, and Value Added for the Metal Mining Industries, Except Service Industries, by Type of Operation for Industry Groups and Divisions, Selected States, and Alaska: 1958—Continued

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments										Non-producing establishments
			Total	Mining only				Mines with preparation plants				Separately operated preparation plants	
				Total	Under-ground mines	Open-pit mines	Combination methods and other methods	Total	Under-ground mines	Open-pit mines	Combination methods and other methods		
	DIVISION AND STATE—Con.												
	Mountain—Continued												
	Montana:												
	Number of establishments	114	82	67	35	31	1	12	6	5	1	3	32
	Number of employees.....	5,337	(D)	3,516	1,021	(D)	(D)	(D)	356	(D)	(D)	1,372	(D)
	Value added in mining.....\$1,000..	34,228	34,059	22,548	7,227	(D)	(D)	5,180	5,076	(D)	(D)	6,331	169
102	Copper ores:												
	Number of establishments	8	6	4	2	1	1	1	1	...	...	1	2
	Number of employees.....	3,685	(D)	2,511	(D)	(D)	(D)	(D)	(D)	...	...	(D)	(D)
	Value added in mining.....\$1,000..	20,413	(D)	15,323	(D)	(D)	(D)	(D)	(D)	...	...	(D)	(D)
103	Lead and zinc ores:												
	Number of establishments	25	17	14	12	2	...	2	1	...	1	1	8
	Number of employees.....	596	580	436	(D)	(D)	...	(D)	(D)	...	(D)	(D)	16
	Value added in mining.....\$1,000..	4,191	4,215	3,350	(D)	(D)	...	(D)	(D)	...	(D)	(D)	( <sup>1</sup> )
	Idaho:												
	Number of establishments	111	63	27	15	11	1	35	20	13	2	1	48
	Number of employees.....	23,372	23,251	(D)	136	11	(D)	(D)	2,639	91	(D)	(D)	121
	Value added in mining.....\$1,000..	230,255	230,388	(D)	1,814	217	(D)	(D)	19,662	2,002	(D)	(D)	( <sup>1</sup> )
103	Lead and zinc ores:												
	Number of establishments	42	26	12	9	2	1	14	14	...	...	...	16
	Number of employees.....	1,946	1,921	129	129	(D)	(D)	1,792	1,792	...	...	...	25
	Value added in mining.....\$1,000..	11,701	11,794	1,793	1,775	(D)	(D)	10,001	10,001	...	...	...	( <sup>1</sup> )
104	Gold and silver ores:												
	Number of establishments	44	24	9	4	5	...	15	4	10	1	...	20
	Number of employees.....	907	840	8	(D)	(D)	...	832	(D)	...	(D)	...	67
	Value added in mining.....\$1,000..	9,606	9,707	113	(D)	(D)	...	9,594	(D)	41	(D)	...	( <sup>1</sup> )
	Wyoming:												
	Number of establishments	73	59	53	20	33	...	4	...	2	2	2	14
	Number of employees.....	878	(D)	539	313	226	...	(D)	...	(D)	(D)	(D)	(D)
	Value added in mining.....\$1,000..	21,023	(D)	10,536	3,042	7,494	...	(D)	...	(D)	(D)	(D)	(D)
	Colorado:												
	Number of establishments	358	269	237	196	39	2	21	14	7	...	11	89
	Number of employees.....	5,446	5,202	1,275	1,227	(D)	(D)	2,556	2,548	8	...	1,371	244
	Value added in mining.....\$1,000..	67,357	67,674	15,508	15,255	(D)	(D)	35,567	35,522	45	...	16,599	( <sup>1</sup> )
	New Mexico:												
	Number of establishments	104	68	47	33	12	2	15	7	6	2	6	36
	Number of employees.....	3,991	3,825	1,321	(D)	791	(D)	1,694	(D)	(D)	(D)	810	166
	Value added in mining.....\$1,000..	79,793	79,600	18,695	(D)	(D)	(D)	54,957	(D)	(D)	(D)	5,948	193
102	Copper ores:												
	Number of establishments	11	6	3	2	1	...	2	1	1	...	1	5
	Number of employees.....	1,416	1,375	738	(D)	(D)	...	(D)	(D)	(D)	...	(D)	41
	Value added in mining.....\$1,000..	(D)	(D)	(D)	(D)	(D)	...	(D)	(D)	(D)	...	(D)	78
	Arizona:												
	Number of establishments	197	139	97	49	45	3	38	11	26	1	4	58
	Number of employees.....	14,404	14,202	(D)	1,390	136	(D)	12,370	4,973	7,397	...	(D)	202
	Value added in mining.....\$1,000..	181,777	182,836	(D)	14,986	1,938	(D)	(D)	40,708	120,605	(D)	(D)	( <sup>1</sup> )
102	Copper ores:												
	Number of establishments	56	37	21	12	9	...	16	5	11	...	...	19
	Number of employees.....	13,072	12,976	1,089	1,073	16	...	11,887	(D)	(D)	...	...	96
	Value added in mining.....\$1,000..	165,569	166,095	10,927	10,510	417	...	155,168	(D)	(D)	...	...	( <sup>2</sup> )
103	Lead and zinc ores:												
	Number of establishments	22	11	7	7	...	...	3	3	...	...	1	11
	Number of employees.....	416	364	54	54	...	...	(D)	(D)	...	...	(D)	52
	Value added in mining.....\$1,000..	4,077	4,521	473	473	...	...	(D)	(D)	...	...	(D)	( <sup>1</sup> )

See footnotes at end of table.



Table 2C.--Number of Establishments, Employment, and Value Added for the Metal Mining Industries, Except Service Industries, by Type of Operation for Industry Groups and Divisions, Selected States, and Alaska: 1958--Continued

Ind. code	Industry group, division, State, and item	All types of estab- lish- ments, total	Producing establishments										Non- produc- ing estab- lish- ments
			Total	Mining only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants	
				Total	Under- ground mines	Open- pit mines	Combi- nation methods and other methods	Total	Under- ground mines	Open- pit mines	Combi- nation methods and other methods		
	DIVISION AND STATE—Con.												
	Mountain—Continued												
	Utah:												
101	Iron ores:												
	Number of establishments.	7	7	7	...	7	...	...	...	...	...	...	...
	Number of employees.....	465	465	465	...	465	...	...	...	...	...	...	...
	Value added in mining.....\$1,000..	22,186	22,186	22,186	...	22,186	...	...	...	...	...	...	...
103	Lead and zinc ores:												
	Number of establishments.	29	20	18	15	2	1	...	...	...	...	2	9
	Number of employees.....	1,145	1,126	(D)	(D)	(D)	(D)	...	...	...	...	(D)	19
	Value added in mining.....\$1,000..	9,557	9,526	(D)	(D)	(D)	(D)	...	...	...	...	(D)	31
109	Miscellaneous metal ores:												
	Number of establishments.	160	127	121	107	11	3	1	1	...	...	5	33
	Number of employees.....	1,791	1,755	(D)	865	8	(D)	(D)	(D)	...	...	853	36
	Value added in mining.....\$1,000..	49,545	49,787	(D)	39,196	774	(D)	(D)	(D)	...	...	9,731	( <sup>1</sup> )
	Nevada:												
101	Iron ores:												
	Number of establishments.	14	12	10	...	10	...	2	...	2	...	...	2
	Number of employees.....	160	(D)	96	...	96	...	(D)	...	(D)	...	...	(D)
	Value added in mining.....\$1,000..	2,496	(D)	1,662	...	1,662	...	(D)	...	(D)	...	...	(D)
	Pacific:												
	Number of establishments.	357	215	92	38	50	4	118	40	75	3	5	142
	Number of employees.....	2,549	2,289	227	82	135	10	2,038	1,212	807	19	24	260
	Value added in mining.....\$1,000..	46,244	46,411	7,350	1,131	6,149	70	38,720	13,265	(D)	(D)	341	( <sup>1</sup> )
101	Iron ores:												
	Number of establishments.	3	2	...	...	...	...	2	...	2	...	...	1
	Number of employees.....	351	(D)	...	...	...	...	(D)	...	(D)	...	...	(D)
	Value added in mining.....\$1,000..	15,394	(D)	...	...	...	...	(D)	...	(D)	...	...	(D)
102	Copper, lead, zinc, gold, and silver ores:												
103													
104													
	Number of establishments.	175	74	28	23	5	...	46	16	30	...	...	101
	Number of employees.....	1,025	851	87	(D)	(D)	...	764	500	264	...	...	174
	Value added in mining.....\$1,000..	9,618	9,720	713	(D)	(D)	...	9,007	5,577	3,430	...	...	( <sup>1</sup> )
106	Ferroalloy ores:												
	Number of establishments.	94	78	49	9	37	3	24	8	13	3	5	16
	Number of employees.....	487	(D)	103	13	83	(D)	(D)	260	39	(D)	24	42
	Value added in mining.....\$1,000..	10,888	(D)	6,138	252	5,860	(D)	(D)	2,819	1,218	(D)	341	1
109	Miscellaneous metal ores:												
	Number of establishments.	85	61	15	6	8	1	46	16	30	...	...	24
	Number of employees.....	686	(D)	(D)	(D)	(D)	(D)	(D)	452	(D)	...	...	43
	Value added in mining.....\$1,000..	9,804	(D)	(D)	(D)	(D)	(D)	(D)	4,869	(D)	...	...	( <sup>1</sup> )
	Washington:												
	Number of establishments.	48	23	14	6	6	2	9	6	3	...	...	25
	Number of employees.....	552	486	(D)	25	48	(D)	(D)	334	(D)	...	...	66
	Value added in mining.....\$1,000..	(D)	9,392	(D)	662	218	(D)	(D)	5,067	(D)	...	...	(D)
	Oregon:												
	Number of establishments.	65	37	16	5	11	...	18	7	11	...	3	28
	Number of employees.....	2,265	207	67	5	62	...	(D)	(D)	(D)	...	(D)	258
	Value added in mining.....\$1,000..	(D)	7,410	5,281	167	5,114	...	(D)	(D)	(D)	...	(D)	( <sup>1</sup> )
	California:												
	Number of establishments.	244	155	62	27	33	2	91	27	61	3	2	89
	Number of employees.....	1,733	1,596	(D)	52	25	(D)	1,495	(D)	708	(D)	(D)	137
	Value added in mining.....\$1,000..	29,571	29,609	(D)	320	817	(D)	28,176	(D)	21,536	(D)	(D)	( <sup>1</sup> )

See footnotes at end of table.

Table 2C.—Number of Establishments, Employment, and Value Added for the Metal Mining Industries, Except Service Industries, by Type of Operation for Industry Groups and Divisions, Selected States, and Alaska: 1958—Continued

Ind. code	Industry group, division, State, and item	All types of estab- lish- ments, total	Producing establishments										Non- produc- ing estab- lish- ments
			Total	Mining only				Mines with preparation plants				Sepsa- rately operated prepa- ration plants	
				Total	Under- ground mines	Open- pit mines	Combi- nation methods and other methods	Total	Under- ground mines	Open- pit mines	Combi- nation methods and other methods		
109	Pacific—Continued												
	California—Continued												
	Miscellaneous metal ores:												
	Number of establishments.	56	42	6	3	3	...	36	10	26	...	...	14
	Number of employees.....	420	405	13	9	4	...	392	334	58	...	...	15
	Value added in mining.....\$1,000..	3,973	4,020	157	82	75	...	3,863	2,916	947	...	...	( <sup>1</sup> )
	Alaska:												
	Number of establishments.	121	92	6	...	6	...	86	...	86	...	...	29
Number of employees.....	2548	2529	219	...	219	...	510	...	510	...	...	19	
Value added in mining.....\$1,000..	25,448	25,458	2250	...	2250	...	5,208	...	5,208	...	...	( <sup>1</sup> )	

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed excluded capital expenditures.

<sup>2</sup>Includes figures for metal mining services operations.

<sup>3</sup>Includes data for employees at separately reported central offices and related facilities not distributed by type of operation.

<sup>4</sup>Includes figures for metal mining services operations in Oregon.



Table 3.—Detailed Statistics for the Metal

	Item	10— Metal mining industries	101— Iron ores industry	102— Copper ores industry	103—Lead and zinc ores			104—Gold and silver ores				1051— Bauxite industry
					Indus- try, total	Lead ores subin- dustry	Zinc ores subin- dustry	Indus- try group, total	1042— Lode gold indus- try	1043— Placer gold indus- try	1044— Silver ores indus- try	
1	Number of operating companies.....	1,906	127	112	226	194	42	375	242	73	60	12
2	Number of establishments, total.....	2,233	242	148	288	211	77	379	244	74	61	29
3	With 0-19 employees.....	1,850	113	110	236	185	51	359	232	71	56	20
4	With 20-99 employees.....	214	57	9	29	14	15	16	11	2	3	7
5	With 100 employees and over.....	169	72	29	23	12	11	4	1	1	2	2
6	Including mines.....	2,056	232	140	275	204	71	377	242	74	61	23
7	Including preparation plants or mills.....	602	123	36	69	42	27	132	51	74	7	8
8	Net shipments of primary products <sup>1</sup> .....1,000 tons..	xxx	68,530	111,957	14,405	8,761	5,644	2,854	2,358	xxx	496	1,420
9	Value of shipments and receipts.....\$1,000..	1,835,845	681,938	457,644	120,561	75,603	44,958	48,389	29,506	6,326	12,557	18,174
10	Minerals transferred to other establishments for preparation and resales.....do....	264,654	246,550	83,216	16,718	7,459	9,259	1,408	1,272	...	136	800
11	Net shipments and receipts, total.....do....	1,571,191	635,388	374,428	103,843	68,144	35,699	46,981	28,234	6,326	12,421	17,374
12	Primary products or services.....do....	xxx	278,781	357,244	99,702	54,094	28,531	46,655	28,164	6,314	12,177	17,355
13	Other products and services <sup>6</sup> .....do....	xxx	356,607	17,184	4,141	14,050	7,168	326	70	12	244	19
14	Value added in mining.....do....	1,187,327	500,232	266,485	73,679	48,023	25,656	37,896	22,659	4,873	10,364	15,430
15	Number of persons engaged, total.....	94,349	31,706	27,746	11,439	7,057	4,382	4,267	2,780	441	1,046	712
16	Production and development workers, average for the year.....	71,402	23,659	20,898	8,728	5,460	3,268	3,411	2,234	323	854	502
17	All other employees.....	21,099	7,917	6,744	2,499	1,423	1,076	528	352	41	135	203
18	Proprietors and firm members.....	1,848	130	104	212	174	38	328	194	77	57	7
19	Performing manual labor.....	1,190	83	69	141	108	33	241	145	56	40	6
20	Man-hours worked by production and development workers, total.....1,000..	136,750	41,737	41,021	16,734	10,397	6,337	7,071	4,602	723	1,746	905
21	At mines, total.....do....	102,410	31,634	29,256	14,691	9,288	5,403	6,275	4,026	672	1,577	713
22	Underground.....do....	52,080	13,894	10,438	11,118	7,048	4,070	4,195	2,943	2	1,250	238
23	Open-pit.....do....	25,269	9,865	10,691	22	17	5	660	98	9555	7	153
24	Surface.....do....	25,061	7,875	8,127	3,551	2,223	1,328	1,420	985	115	320	322
25	At preparation plants or mills.....do....	34,340	10,103	11,765	2,043	1,109	934	796	576	951	169	192
26	Man-hours spent on development and exploration work (included above).....do....	8,356	1,661	1,672	1,491	1,141	350	967	483	132	352	24
27	Principal expenses designated below, total.....\$1,000..	1,281,064	380,326	360,343	106,978	64,205	42,773	32,533	20,258	3,470	8,805	6,275
28	Wages of production and development workers.....do....	356,209	120,618	106,357	39,001	24,843	14,158	17,064	10,709	1,515	4,840	2,290
29	Salaries of all other employees.....do....	131,577	53,769	37,144	15,396	8,916	6,480	2,930	1,738	275	917	1,316
30	Supplies <sup>12</sup> .....do....	282,406	80,320	86,587	21,185	12,996	8,189	8,258	5,917	1,070	2,361	728
31	Minerals received for prepara- tion or milling.....do....	303,251	136,662	89,011	21,517	11,353	10,164	1,090	...	...	...	1,066
32	Purchased fuel.....do....	37,986	17,447	9,744	1,058	609	449	868	577	94	197	258
33	Purchased electric energy.....do....	37,230	14,000	9,476	5,869	3,380	2,489	1,658	890	431	337	172
34	Contract work.....do....	132,405	29,510	22,024	2,952	2,108	844	665	427	85	153	445
35	Purchased machinery installed.....do....	69,531	18,516	19,191	2,920	1,630	1,290	1,178	764	113	301	1,483
36	Capital expenditures, total.....do....	214,291	42,749	44,874	8,619	4,496	4,123	3,224	1,728	340	1,156	1,408
37	Development and exploration of mineral property.....do....	44,228	10,913	9,720	4,160	2,295	1,865	1,181	470	65	646	24
38	Preparation plant or mill and other construction.....do....	97,647	11,944	14,835	1,845	1,002	843	962	503	91	368	107
39	New machinery and equipment.....do....	65,298	18,675	16,534	2,502	1,113	1,389	766	535	115	116	1,247
40	Used plant and equipment.....do....	7,118	1,217	3,785	112	86	26	315	220	69	26	30
41	Energy used.....million kwh equivalent..	227,383	11,106	10,239	21,153	659	2494	528	347	71	110	151
42	Coal.....1,000 short tons..	1,052	791	188	17	9	8	17	16	8	1	(NA)
43	Fuel oil.....1,000 barrels..	2,586	1,782	279	67	27	40	26	16	(8)	10	(NA)
44	Gas.....million cu. ft..	228,388	1,574	21,356	2455	269	184	79	79	...	...	...
45	Other fuels.....\$1,000..	5,579	1,893	1,183	197	263	109	114	348	93	128	258
46	Undistributed fuels.....do....	3,126	224	31	175	...	...	455	...	...	...	...
47	Electric energy purchased.....million kwh..	3,876	978	1,444	676	395	281	187	86	48	53	9
48	Electric energy generated and used.....do....	2,192	900	1,196	23	21	2	9	7	...	2	...

D Withheld to avoid disclosing data for individual companies.

NA Not available.

Revised.

<sup>1</sup>Represents long tons for the Iron Ores, Bauxite, and Manganese Ores Industries, flasks for the Mercury Ores Industry, and short tons for all other industries. The figures for net shipments in the Iron Ores, Manganese Ores, and Tungsten Ores Industries include shipments by establishments in other industries. The figure for the Iron Ores Industry includes shipments of manganiferous iron ore valued chiefly for its iron content. For the Copper Ores, Lead and Zinc Ores, Lode Gold, and Silver Ores Industries, the figures shown represent thousands of tons of crude ore mined in the respective industries. For the Mercury Ores Industry, represents the number of flasks (76 pounds each) of mercury metal produced. For the Titanium Ores Industry, represents short tons of titanium (ilmenite and rutile) concentrates produced. For the Uranium-Radium-Vanadium Ores Industry, represents thousands of short tons of crude uranium-radium ores mined in the industry.

<sup>2</sup>Includes manganiferous iron ore valued chiefly for its iron content.

<sup>3</sup>Separate figures were not requested for transfers for preparation for the Ferroalloy Ores, Except Vanadium industry group. In general, for tungsten, molybdenum, cobalt, nickel, columbium, and tantalum ores, only concentrates of these metals were reported shipped in 1958. It is presumed that no transfers of these commodities were made for preparation in the mining industries. The minerals received for preparation in the Tungsten Ores Industry represented primarily imported ores.

<sup>4</sup>Represents the cost of minerals received for preparation. Separate information on shipments of chromium ores for preparation was not obtained.

<sup>5</sup>Represents direct-shipping iron ore, including manganiferous iron ore valued chiefly for its iron content only.

## Mining Industries in the United States.

106—Ferroalloy ores, except vanadium						108—Metal mining services			109—Miscellaneous metal ores						
Industry group, total	1062—Manganese ores industry	1064—Tungsten ores industry	1069—Ferroalloy ores, nec			Industry group, total	1081—Metal mining stripping services industry	1082—Metal mining services, except stripping industry	Industry group, total	1092—Mercury ores industry	1093—Titanium ores industry	1094—Uranium-radium-vanadium ores industry	1099—Metallic ores, nec industry		
			Industry, total	Chromium ores sub-industry	Molybdenum, cobalt, and other ores sub-industry										
286	182	32	75	63	12	91	29	62	708	77	9	563	66		
294	186	32	76	63	13	95	29	66	758	79	11	602	66	2	
261	164	28	69	62	7	72	23	49	679	70	4	541	64	3	
25	20	2	3	...	3	16	5	11	55	8	3	42	2	4	
8	2	2	4	1	3	7	1	6	24	1	4	19	...	5	
277	176	28	73	60	13	xxx	xxx	xxx	732	78	10	582	62	6	
112	68	18	26	21	5	xxx	xxx	xxx	122	72	11	30	9	7	
xxx	460	6	xxx	148	xxx	xxx	xxx	xxx	xxx	33,812	602,535	5,480	xxx	8	
111,521	39,385	14,430	57,706	6,001	51,705	32,384	10,270	22,114	365,234	8,607	17,158	336,451	3,018	9	
35,086	5,055	(3)	431	431	(3)	...	...	...	110,876	8,607	{	627	109,452	{	
106,435	34,330	14,430	57,675	5,970	51,705	32,384	10,270	22,114	254,358			16,531	226,999		3,018
96,810	34,330	14,430	57,675	{	{	51,705	10,270	22,114	{			(D)	226,999		(D)
9,625										(D)	226,999	(D)			
74,255	20,014	8,164	46,077	5,759	40,318	22,862	8,472	14,390	196,488	7,093	12,746	174,802	1,847	14	
5,776	2,308	657	2,811	403	2,408	2,269	584	1,685	10,434	730	962	8,446	296	15	
4,380	1,792	508	2,080	235	1,845	1,973	505	1,468	7,851	569	706	6,389	187	16	
1,058	307	130	621	61	560	211	48	163	1,939	83	256	1,550	50	17	
338	209	19	110	107	3	85	31	54	644	78	...	507	59	18	
206	128	9	69	66	3	50	22	28	394	62	...	291	41	19	
8,335	3,475	977	3,883	488	3,395	4,274	1,013	3,261	16,673	1,223	1,234	13,873	343	20	
5,773	2,406	516	2,851	384	2,467	4,274	1,013	3,261	9,794	957	505	8,184	148	21	
3,616	1,159	388	2,069	223	1,846	82,564	...	82,564	6,017	649	...	5,352	16	22	
953	690	22	241	31	210	101,013	101,013	...	1,912	165	319	1,347	81	23	
1,204	557	106	541	130	411	11,697	...	11,697	1,865	143	186	1,485	51	24	
2,562	1,069	461	1,032	104	928	xxx	xxx	xxx	6,879	266	729	5,689	195	25	
343	88	113	142	16	126	xxx	xxx	xxx	2,198	84	7	2,048	59	26	
68,364	29,512	9,197	29,655	2,436	27,219	21,517	4,312	17,205	304,728	5,118	9,560	287,544	2,506	27	
19,455	7,244	1,993	10,218	1,122	9,096	10,624	2,357	8,267	40,800	2,627	2,882	34,439	852	28	
7,256	1,792	914	4,550	524	4,026	1,473	315	1,158	12,293	485	1,614	9,983	211	29	
15,817	5,216	1,385	9,216	293	8,923	7,657	972	6,685	61,854	1,462	3,252	{	1,196	30	
15,370	10,675	4,664	31	31	...	xxx	xxx	xxx	110,535						
1,671	1,101	17	553	81	472	1,271	494	777	5,669						
2,263	677	217	1,369	96	1,273	60	51	9	3,732						
6,532	2,807	7	3,718	289	3,429	432	123	309	69,845	55	121	69,613	56	34	
2,158	1,085	98	975	188	787	1,365	1,013	352	22,720	370	1,831	20,092	427	35	
6,545	2,190	122	4,233	736	3,497	1,263	855	408	105,609	862	2,483	101,565	699	36	
1,303	469	17	817	65	752	xxx	xxx	xxx	16,927	290	39	16,499	99	37	
2,655	253	32	2,370	399	1,971	34	(14)	(14)	65,265	131	329	64,578	227	38	
2,094	1,113	56	925	158	767	1,155	805	350	22,325	352	2,115	19,660	198	39	
493	355	17	121	114	7	74	1450	1458	1,092	89	...	828	175	40	
1922	582	25	2315	25	2290	340	143	197	2,944	129	426	2,344	45	41	
8	8	(NA)	(NA)	(NA)	(NA)	(15)	...	(15)	31	...	25	...	...	42	
65	65					67	51	16	300	51	68	165	16	43	
670	670					...	...	...	4,256	9	...	4,242	5	44	
185	185					744	150	594	1,263	32	89	1,127	15	45	
835	265	17	553	81	472	150	63	87	998	92	1	869	36	46	
260	91	20	149	1	148	3	3	(15)	319	8	96	212	3	47	
8	(D)	...	(D)	(D)	(D)	(15)	...	(15)	56	7	...	48	1	48	

<sup>6</sup>In addition, custom mills and preparation plants operating in the Copper Ores, Manganese Ores, and Miscellaneous Metal Ores Industries received \$9,741 thousand for the preparation of concentrates on a custom or toll basis. These receipts are not included in the figures for value of shipments in order to avoid duplication, since the value of the custom concentrates shipped is already included in the value of shipments figures.

<sup>7</sup>Includes the value of shipments of the primary products: iron concentrates to consumers and iron agglomerates.

<sup>8</sup>Represents man-hours on services such as sinking mine shafts, driving mine tunnels, and drilling.

<sup>9</sup>For the Placer Gold Industry, respondents were requested to report under open-pit, the man-hours for mining of surface placer gravels, including thawing, stripping, hydraulicking, and panning. Under man-hours at mills, respondents were requested to include work at sluice boxes and washing plants. For dredges and other floating equipment, man-hours were to be allocated between open-pit and mill or washing plant. It appears that some establishments utilizing dredging or other floating washing equipment may have reported mill or washing plant man-hours as surface man-hours.

<sup>10</sup>Represents man-hours on stripping overburden and mining for the account of others.

<sup>11</sup>Represents man-hours on exploration work, including geophysical and other exploratory surveying.

<sup>12</sup>Includes the cost of products bought and resold without further processing.

<sup>13</sup>Includes the cost of iron ores received for crushing only.

<sup>14</sup>Capital expenditures for preparation plant or mill and other construction are combined with capital expenditures for used plant and equipment.

<sup>15</sup>Less than one-half of the unit of measure specified.



Table 4.—Selected Statistics for Metal Mining Establishments Classified by Employment Size, for the United States, and Number of Establishments by Employment size for Divisions, States, and Alaska; 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Item, division, and State	All establishments, total	Establishments with an average of—									
		0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
United States, total:											
Number of establishments.....	2,233	1,487	211	152	129	84	97	36	19	17	1
All employees:											
Number.....	<sup>1</sup> 92,501	1,767	1,353	2,090	4,043	6,122	15,899	12,287	13,854	<u>29,773</u>	(D)
Payroll.....\$1,000..	<sup>1</sup> 487,786	6,571	5,795	9,520	20,574	32,863	87,624	64,551	72,270	<u>152,934</u>	(D)
Production and development workers:											
Number.....	71,402	1,540	1,089	1,689	3,340	5,112	13,082	10,198	11,317	<u>24,035</u>	(D)
Man-hours.....\$1,000..	136,750	2,616	2,054	3,325	6,775	10,107	25,619	19,213	21,236	<u>45,805</u>	(D)
Wages.....\$1,000..	356,209	5,431	4,568	7,493	16,522	25,890	67,678	50,775	55,863	<u>121,989</u>	(D)
Value added in mining.....do....	1,187,327	20,618	10,464	29,070	48,104	116,994	285,736	215,576	168,509	<u>292,256</u>	(D)
Value of shipments and receipts.....do....	1,835,845	29,149	15,196	40,592	79,217	177,009	452,728	327,407	235,618	<u>478,929</u>	(D)
Capital expenditures.....do....	214,291	11,216	2,284	9,801	29,075	29,407	73,403	11,079	17,290	<u>30,736</u>	(D)
Number of establishments by division and State:											
New England, total.....	4	2	1	...	1	...	...	...	...	...	...
Maine.....	2	2	...	...	...	...	...	...	...	...	...
Vermont.....	1	...	1	...	...	...	...	...	...	...	...
Connecticut.....	1	...	...	...	1	...	...	...	...	...	...
Middle Atlantic, total.....	25	2	1	3	3	3	5	5	2	1	...
New York.....	12	2	...	1	...	3	2	3	1	...	...
New Jersey.....	5	...	...	...	1	...	2	2	...	...	...
Pennsylvania.....	8	...	1	2	2	...	1	...	1	1	...
East North Central, total.....	59	10	4	4	9	7	16	4	3	2	...
Ohio.....	2	...	1	1	...	...	...	...	...	...	...
Illinois.....	5	1	1	...	1	2	...	...	...	...	...
Michigan.....	40	3	1	2	7	5	15	3	2	2	...
Wisconsin.....	12	6	1	1	1	...	1	1	1	...	...
West North Central, total.....	198	86	19	20	16	17	29	5	2	4	...
Minnesota.....	89	9	6	11	15	14	25	5	2	2	...
Missouri.....	48	29	8	4	1	1	4	...	...	1	...
North Dakota.....	4	3	...	1	...	...	...	...	...	...	...
South Dakota.....	38	31	1	3	...	2	...	...	...	1	...
Nebraska.....	2	2	...	...	...	...	...	...	...	...	...
Kansas.....	17	12	4	1	...	...	...	...	...	...	...
South Atlantic, total.....	58	28	4	13	6	1	5	1	...	...	...
Maryland.....	4	3	...	1	...	...	...	...	...	...	...
Virginia.....	18	6	3	5	3	...	...	1	...	...	...
West Virginia.....	1	1	...	...	...	...	...	...	...	...	...
North Carolina.....	5	1	1	...	1	...	2	...	...	...	...
South Carolina.....	3	1	...	1	1	...	...	...	...	...	...
Georgia.....	21	16	...	5	...	...	...	...	...	...	...
Florida.....	6	...	...	1	1	1	3	...	...	...	...
East South Central, total.....	53	18	5	7	7	7	3	4	1	1	...
Tennessee.....	20	5	1	5	2	3	2	1	...	1	...
Alabama.....	33	13	4	2	5	4	1	3	1	...	...
West South Central, total.....	81	42	18	5	10	3	3	...	...	...	...
Arkansas.....	41	18	7	4	8	2	2	...	...	...	...
Oklahoma.....	26	14	10	1	...	1	...	...	...	...	...
Texas.....	14	10	1	...	2	...	1	...	...	...	...
Mountain, total.....	1,394	1,003	125	91	68	39	31	16	11	9	1
Montana.....	118	97	6	4	3	3	1	1	1	2	...
Idaho.....	111	83	5	7	6	4	1	3	2	...	...
Wyoming.....	80	63	8	5	...	...	3	1	...	...	...
Colorado.....	382	287	35	23	19	9	4	4	...	1	...
New Mexico.....	110	55	17	18	4	7	6	...	3	...	...
Arizona.....	202	135	18	12	15	5	4	4	4	4	1
Utah.....	246	177	25	14	12	6	9	...	1	2	...
Nevada.....	145	106	11	8	9	5	3	3	...	...	...
Pacific, total.....	361	296	34	9	9	7	5	1	...	...	...
Washington.....	49	34	7	2	2	3	1	...	...	...	...
Oregon.....	65	55	6	1	1	2	...	...	...	...	...
California.....	247	207	21	6	6	2	4	1	...	...	...
Alaska.....	121	111	2	4	2	1	1	...	...	...	...

<sup>1</sup>Includes data for employees at separately reported central offices and related facilities in the Iron Ores and in the Copper Ores Industries which were not distributed by employment size.

## Iron Ores

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Industry 1011, Iron Ores. This industry represents establishments primarily engaged in mining, beneficiating, or otherwise preparing iron ores and manganiferous ores valued chiefly for their iron content. The industry includes the production of sinter and other agglomerates in association with mining and beneficiating activities. Blast furnaces primarily engaged in producing pig iron from iron ore are classified as manufacturing plants in Industry 3312, Blast Furnaces and Steel Mills. The production of sinter and other agglomerates in conjunction with blast furnace operations is also classified as manufacturing.

The total value of shipments and receipts of the iron ores industry in 1958 amounted to \$682 million. Of this total, over 95 percent represented products primary to the industry. Establishments in the iron ores industry accounted for more than 98 percent of the total of approximately 69 million long tons of usable iron ore shipped in all mineral industries.

These figures represent gross value of shipments and contain duplication due to the inclusion of the value of minerals transferred from one establishment to other establishments in the same industry for preparation. The value of iron ores and concentrates transferred to other establishments for beneficiation or agglomeration was \$47 million which yields a net value of shipments and receipts of \$635 million.

The general statistics (employment, payrolls, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the production of secondary products and in the performance of contract work for others. This fact should be taken into account in comparing industry statistics (tables 1-4 and 7-12) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry.

The Bureau of the Census statistics on primary products of the iron ores industry are, in general, comparable

with product statistics on iron ores published by the Bureau of Mines. Such differences as occur result principally from differences in data collection methods, coverage, and objectives sought. The most nearly comparable statistics from the two bureaus are shown in the table below. Major reasons for the differences in product statistics are:

(1) The Bureau of the Census defines as manganiferous iron ores material containing at least 5 percent manganese in the natural state but valued chiefly for its iron content. Figures for such ores are included in the primary products of the iron ores industry. The Bureau of Mines excludes all manganiferous ores (ores containing 5 to 35 percent manganese) from its statistics on iron ores, although a figure for such ores is reproduced in the Bureau's report on iron ores.

(2) Census crude iron ore statistics exclude any iron ore mined by establishments classified by Census in industries other than iron ores, crude metal ores mined by an establishment usually being designated a primary product of the industry in which the establishment mining it was classified. However, a rough estimate of the magnitude of such crude ore can be made from Census statistics for shipments of iron ores, concentrates, and agglomerates by other industries, and such figures indicate that this production was very small. Bureau of Mines statistics on crude iron ore mined include data for crude iron ore mined regardless of the producing establishments' industry classification.

(3) The Bureau of the Census excludes small establishments whose value of products and reported costs of operation were both below \$500. The Bureau of Mines includes all reports obtained regardless of size. However, the contribution to products of such iron ores establishments is very small.

(4) Bureau of the Census product statistics cover concentrates and agglomerates produced, whether from domestic or imported materials. The Bureau of Mines excludes the product of foreign ores beneficiated in the United States.



QUANTITY AND VALUE OF MINERAL PRODUCTS AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU  
OF MINES FOR THE UNITED STATES: 1958

Product	Bureau of the Census statistics			Bureau of Mines statistics		
	Production (1,000 long tons)	Shipments including interplant transfers		Production (1,000 long tons)	Shipments	
		Quantity (1,000 long tons)	Value (\$1,000)		Quantity (1,000 long tons)	Value (\$1,000)
Iron ore, except manganiferous iron ore:						
Crude iron ore.....	108,384	<sup>1</sup> 50,586	<sup>1</sup> 311,292	109,815	(NA)	(NA)
Net production and shipments...	66,993	<sup>2</sup> 66,003 <sup>3</sup> 68,121	<sup>2</sup> 606,729 <sup>3</sup> 621,799	66,970	66,288	569,154
Manganiferous iron ore:						
Crude ore.....	882	( <sup>1</sup> )	( <sup>1</sup> )	(NA)	(NA)	(NA)
Net production and shipments...	437	<sup>3</sup> 409	<sup>3</sup> 3,042	(NA)	<sup>4</sup> 431	<sup>4</sup> 2,929

NA--Not available.

<sup>1</sup>Manganiferous iron ore is included with "iron ore, except manganiferous iron ore".

<sup>2</sup>Represents gross shipments less receipts from other establishments for preparation. See also footnote 1.

<sup>3</sup>Represents shipments of direct-shipping ore, concentrates to consumers, and agglomerates.

<sup>4</sup>Represents manganiferous iron ore and for Minnesota ferruginous manganese ore.

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanations of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. I.)

Industry code, industry, and year	Oper- ating com- panies, number	Establish- ments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts (\$1,000)	Value of net shipments and receipts <sup>1</sup> (\$1,000)	Usable iron ore pro- duced <sup>2</sup> (1,000 long tons)	Capital expendi- tures (\$1,000)
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		Supplies, fuels, and purchased electricity	Minerals received for prepa- ration or crushing	Contract work	Purchased machinery installed				
1011—IRON ORES:																	
1958.....	127	242	129	31,576	174,387	23,659	41,737	120,618	500,232	111,767	64,662	29,510	18,516	681,938	635,388	67,430	42,749
1954.....	94	225	135	34,170	156,909	28,216	53,288	119,688	435,668	99,182	12,837	47,515	36,994	547,218	539,160	78,222	84,978
1939.....	116	<sup>3</sup> 196	(NA)	22,651	33,326	20,377	38,513	27,431	133,390	17,245	(NA)	236	(NA)	(NA)	150,871	51,644	(NA)
1935.....	(NA)	<sup>3</sup> 199	(NA)	<sup>4</sup> 16,240	<sup>4</sup> 17,644	14,873	(NA)	14,624	65,861	10,872	(NA)	(NA)	(NA)	(NA)	76,733	31,008	(NA)
1929.....	(NA)	186	(NA)	31,113	47,434	28,623	(NA)	41,049	167,127	28,656	(NA)	1,552	4,016	(NA)	197,335	73,962	(NA)
1919.....	(NA)	308	(NA)	49,376	83,742	46,339	(NA)	76,698	177,402	38,346	...	2,470	(NA)	218,218	218,218	61,172	(NA)
1909.....	191	<sup>3</sup> 504	(NA)	50,614	33,472	47,698	(NA)	30,048	89,567	17,551	...	2,763	(NA)	109,881	109,881	51,718	(NA)
1902.....	365	<sup>3</sup> 562	(NA)	41,551	23,822	<sup>5</sup> 39,118	(NA)	21,688	55,675	9,149	(NA)	641	(NA)	(NA)	65,465	35,567	(NA)
1889.....	(NA)	<sup>3</sup> 685	(NA)	38,227	14,409	<sup>6</sup> 36,341	(NA)	12,983	26,775	4,999	(NA)	1,578	(NA)	(NA)	33,352	14,518	(NA)
1880.....	(NA)	805	(NA)	31,668	9,538	<sup>6</sup> 30,415	(NA)	(NA)	20,263	2,894	(NA)	(NA)	(NA)	(NA)	23,157	7,120	(NA)
1870.....	(NA)	420	(NA)	15,022	6,838	(NA)	(NA)	(NA)	11,924	1,280	(NA)	(NA)	(NA)	(NA)	13,204	3,396	(NA)
1860.....	(NA)	157	(NA)	3,177	902	(NA)	(NA)	(NA)	1,933	250	(NA)	(NA)	(NA)	(NA)	2,183	908	(NA)
1850.....	(NA)	197	(NA)	2,195	591	(NA)	(NA)	(NA)	1,154	64	(NA)	(NA)	(NA)	(NA)	1,218	(NA)	(NA)

NA Not available.

<sup>3</sup>For 1939 and earlier years, represents value of products and receipts.

<sup>2</sup>Represents direct-shipping ore, concentrates for consumption, and agglomerates. Includes manganiferous iron ore valued chiefly for its iron content. Figures for 1958 and 1954 include production by establishments classified in industries other than Iron ores.

<sup>1</sup>Represents number of mines.

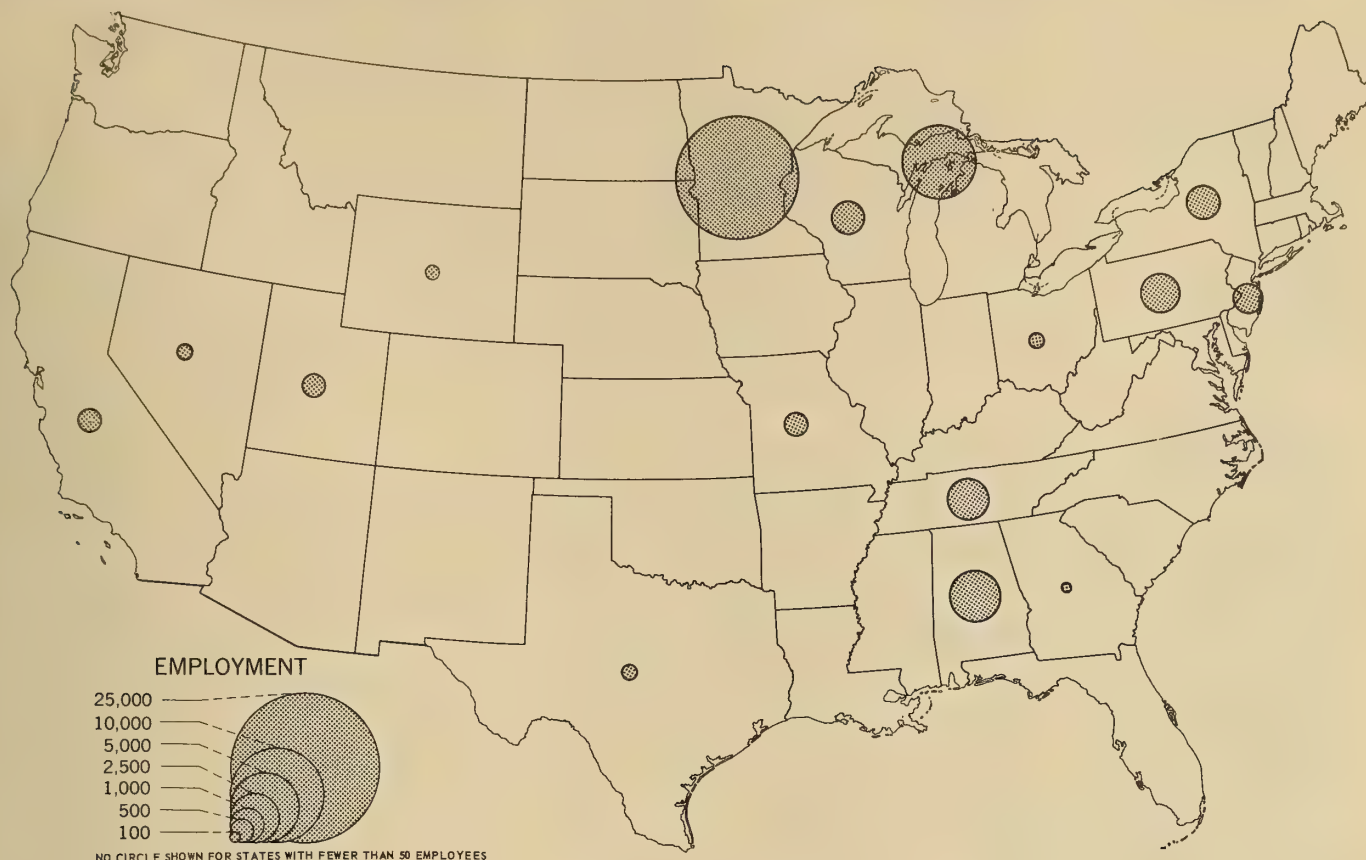
<sup>4</sup>Excludes figures for employees at central offices maintained independently of mine offices.

<sup>5</sup>Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

<sup>6</sup>Represents the average number employed during the time the mines were active.

# IRON ORES

## Distribution of Employment by State:1958



## Employment and Production:1840-1958

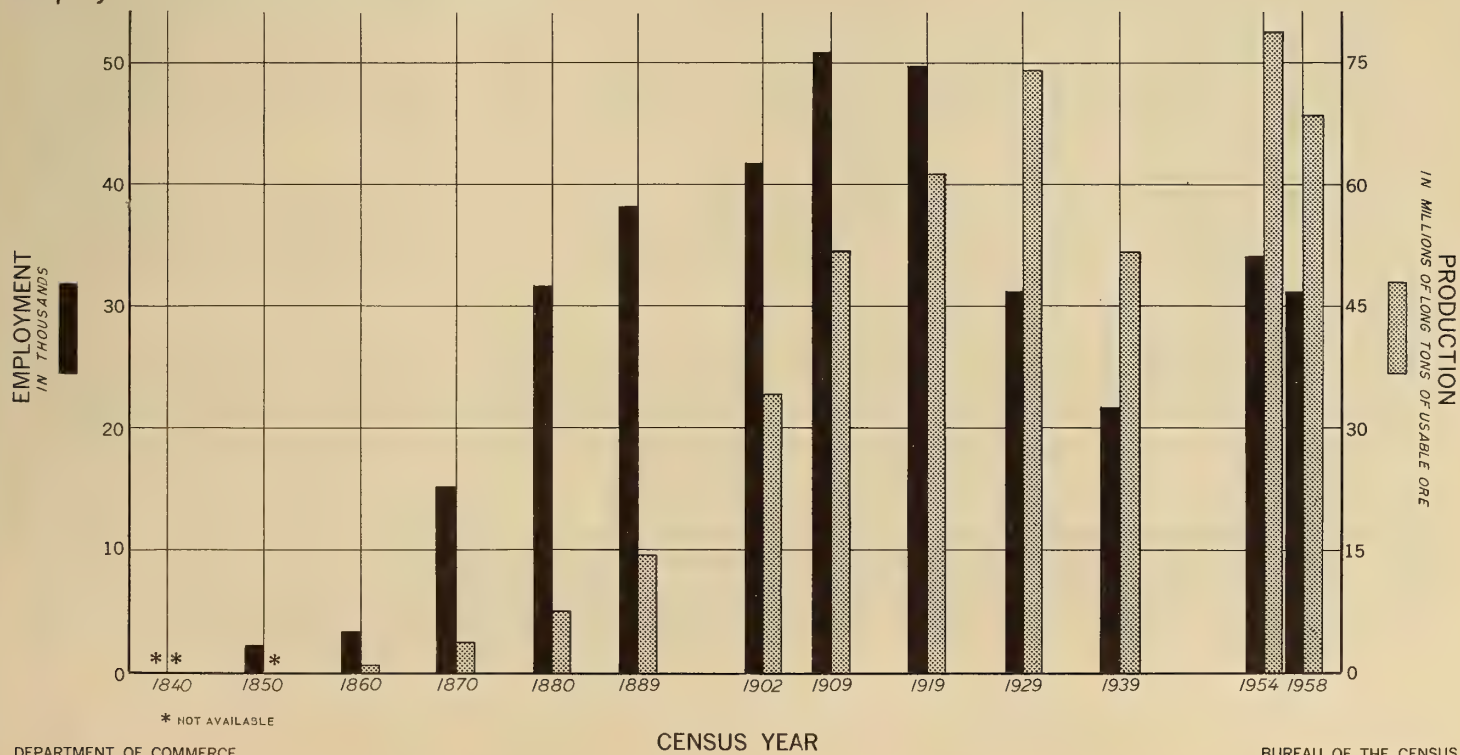




Table 2.—General Statistics by Regions, States, and Type of Operation: 1958 and 1954

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries by State see table 2 of the corresponding chapter of 1954 Census of Mineral Industries, Vol. 1)

Ind. Code	Industry, region, State, <sup>1</sup> and type of operation	1958										1954			
		Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, etc., and purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Usable iron ore produced <sup>2</sup> (1,000 long tons)	Capital expenditures (\$1,000)	All employees, number	Value added in mining (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1011	IRON ORES, TOTAL.....	242	129	31,576	3174,387	23,659	41,737	120,618	500,232	224,455	681,938	67,430	42,749	34,170	435,668
	Region or State														
	Middle Atlantic.....	12	10	3,497	19,933	2,987	5,610	16,174	33,242	19,306	46,851	(D)	5,697	3,903	28,512
	New York.....	4	3	1,051	6,786	872	1,864	5,411	16,472	7,470	21,576	2,127	2,366	(NA)	(NA)
	North Central.....	149	94	22,467	128,004	16,087	28,167	83,166	362,787	151,910	484,052	52,837	30,645	25,027	347,346
	Michigan.....	32	27	5,714	30,782	4,784	7,521	24,922	62,624	33,086	80,618	8,509	15,092	7,943	59,050
	Minnesota.....	84	62	15,048	86,602	10,054	18,524	52,129	291,127	113,803	392,209	42,785	12,721	15,998	278,064
	South.....	49	16	4,323	19,073	3,609	6,146	16,066	60,537	44,134	100,799	(D)	3,872	4,283	32,918
	Alabama.....	30	12	2,547	12,168	2,192	3,721	10,427	41,586	36,749	75,015	(D)	3,320	3,840	27,060
	Mountain.....	29	8	938	5,384	724	1,337	3,883	27,732	5,811	32,019	4,803	1,524	(NA)	(NA)
	Utah.....	7	3	465	2,868	294	565	1,669	22,186	3,465	24,791	3,566	860	424	13,201
	Nevada.....	14	4	160	940	145	296	836	2,496	1,695	3,635	647	556	122	998
	Pacific (California).....	3	1	351	1,993	252	477	1,329	15,934	3,294	18,217	1,875	1,011	(NA)	(NA)
	Type of Operation														
	UNITED STATES														
	Producing establishments, total.....	213	121	27,373	146,068	23,276	41,036	118,572	501,815	210,061	681,938	67,430	29,938	31,798	437,769
	Open pits, total.....	158	71	12,294	67,657	10,170	19,098	52,391	315,532	92,044	392,074	45,222	15,502	16,199	315,619
	Mines only.....	59	14	3,016	16,493	2,460	4,536	12,516	100,679	18,397	116,108	13,535	2,968	1,999	54,882
	Mines with preparation plants.....	99	57	9,278	51,164	7,710	14,562	39,875	214,853	73,647	275,966	31,687	12,534	14,200	260,737
	Underground mines, total.....	47	44	13,235	67,673	11,603	19,014	58,024	128,679	39,864	157,279	14,071	11,264	15,088	118,403
	Mines only.....	36	33	8,456	44,032	7,592	12,064	38,749	87,603	19,685	100,575	11,059	6,713	11,399	87,405
	Mines with preparation plants.....	11	11	4,779	23,641	4,011	6,950	19,275	41,076	20,179	56,704	3,012	4,551	3,689	30,998
	Open stoping.....	21	20	5,961	29,767	5,030	8,201	25,108	64,265	19,263	78,883	6,349	4,645	6,274	52,096
	Block caving.....	5	5	3,106	16,348	2,836	4,779	14,326	23,595	12,827	31,768	2,680	4,654	3,424	24,226
	Sublevel caving.....	12	11	2,901	14,365	2,612	3,983	12,358	24,718	4,744	28,464	3,527	998	4,149	32,214
	Shrinkage stoping, square setting, and other.....	9	8	1,267	7,193	1,125	2,034	6,232	16,101	3,030	18,164	1,515	967	1,241	9,867
	Preparation plants only.....	8	6	1,844	10,738	1,503	2,924	8,157	57,604	78,153	132,585	8,137	3,172	511	3,747
	Nonproducing establishments..	29	8	491	2,863	383	701	2,046	( <sup>5</sup> )	14,394	...	...	12,811	435	( <sup>5</sup> )
	North Central														
	Producing establishments, total.....	126	86	18,291	99,855	15,707	27,471	81,127	363,833	(D)	484,052	52,837	(D)	(NA)	(NA)
	Open pits, total.....	90	51	9,620	53,025	7,992	14,891	41,261	251,063	74,530	315,270	35,627	10,323	(NA)	(NA)
	Mines only.....	31	9	2,414	12,831	2,040	3,712	10,131	76,318	14,070	88,503	9,523	1,885	(NA)	(NA)
	Mines with preparation plants.....	59	42	7,206	40,194	5,952	11,179	31,130	174,745	60,460	226,767	26,104	8,438	(NA)	(NA)
	Underground mines: <sup>6</sup>														
	Mines only.....	30	29	7,068	37,504	6,426	10,123	32,880	77,061	15,661	86,988	10,309	5,734	(NA)	(NA)
	Mines with preparation plants.....	2	2												
	Preparation plants only.....	4	4	1,603	9,326	1,289	2,457	6,986	35,709	61,719	81,794	6,901	14,588	(NA)	(NA)
	Nonproducing establishments..	23	8	486	2,848	380	696	2,039	( <sup>5</sup> )	...	...	...	...	(NA)	(NA)
	Minnesota														
	Producing open pits, total.....	61	48	9,337	51,827	7,739	14,445	40,187	244,022	72,682	307,050	35,264	9,654	(NA)	(NA)
	Mines only.....	15	9	2,345	12,625	1,980	3,623	9,953	75,583	13,853	87,612	9,338	1,824	(NA)	(NA)
	Mines with preparation plants.....	46	39	6,992	39,202	5,759	10,822	30,234	168,439	58,829	219,438	25,926	7,830	(NA)	(NA)
	All other establishments <sup>7</sup> ....	23	14	2,795	15,403	2,315	4,079	11,942	47,105	41,121	85,159	7,521	3,067	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>General statistics for some States are not shown separately in this table in order to avoid approximately disclosing figures for individual companies or because of the relatively small size of the statistics. Such States with the number of establishments in each State (and in parentheses the number of employees or employment-size range) are: New Jersey, 4 (850); Pennsylvania, 4 (1,596); Wisconsin, 4 (1,350, including employees of separately reported central offices in Ohio); Missouri, 29 (355); Maryland, 1 (10-19); Georgia, 10 (63); Tennessee, 2 (1,000-2,499); Arkansas, 1 (0-4); Texas, 5 (247); Montana, 2 (0-4); Idaho, 2 (0-4); Wyoming, 2 (250-499); Colorado, 1 (0-4); New Mexico, 1 (10-19); and California, 3 (250-499). In addition 4 non-producing establishments were reported in Alaska with employment in the range of 0-4.

<sup>2</sup>See table 1, footnote 2.

<sup>3</sup>For 1958, includes 3,712 employees, paid \$25,456 thousand in salaries and, for 1954, includes 1,937 employees, at separately reported central offices and related facilities which were not classified by type of operation.

<sup>4</sup>Includes two establishments with combination open-pit and underground mining methods.

<sup>5</sup>Value added is not shown since the cost of supplies, minerals received for preparation, fuels, purchased electric energy, contract work, and purchased machinery installed exceeded capital expenditures.

<sup>6</sup>Represents 12 establishments using open-stoping, 2 establishments using block caving, 12 establishments using sublevel caving, and 6 establishments using shrinkage stoping, square setting, or other mining methods.

<sup>7</sup>Represents 8 producing establishments engaged in underground mining only, 2 producing establishments engaged in preparing minerals only, and 13 non-producing establishments.

Table 3A.—Detailed Statistics for the Iron Ores Industry, by Regions and States: 1958

Item	United States, total	Middle Atlantic		North Central			South		Mountain		Pacific (Calif.)
		Total	New York	Total	Michigan	Minnesota	Total	Alabama	Total	Utah	
Number of establishments, total.....	242	12	4	149	32	84	49	30	29	7	3
With 0-19 employees.....	113	2	1	55	5	22	33	18	21	4	2
With 20-99 employees.....	57	3	1	40	10	28	9	7	5	1	...
With 100 employees and over.....	72	7	2	54	17	34	7	5	3	2	1
Including mines.....	232	10	4	143	30	81	47	29	29	7	3
Including preparation plants.....	123	11	3	70	6	51	37	22	3	...	2
Crude iron-ore mined, total <sup>1</sup> .....1,000 long tons..	109,266	7,331	4,621	86,010	9,172	74,862	8,092	5,093	5,042	3,566	2,791
Direct-shipping ore.....do....	32,819	7,331	4,621	27,155	9,172	18,400	865	802	5,042	3,566	2,791
Beneficiating-grade ore.....do....	76,446			58,855		56,462	7,227	4,291			
Usable iron ore shipped <sup>1,2</sup> .....do....	68,530	(D)	21,943	(D)	8,254	(D)	(D)	(D)	4,642	3,463	1,803
Value of shipments and receipts, total.....\$1,000..	681,938	46,851	21,576	484,052	80,618	392,209	100,799	75,015	32,019	24,791	18,217
Beneficiating-grade iron ore and concentrates shipped to agglomeration plants <sup>1</sup> .....do....	46,550		(D)	(D)	8,880	24,749			32,019	24,791	18,217
Net shipments and receipts, total.....do....	635,388		21,576		71,738	367,460			32,019	24,791	18,217
Direct-shipping iron ore <sup>1</sup> .....do....	278,781	46,851	21,576	212,729	71,738	367,460	100,799	75,015	32,019	24,791	18,217
Iron concentrates and agglomerates <sup>1</sup> and other products and services.....do....	356,607		(D)	(D)							
Value added in mining.....do....	500,232	33,242	16,472	362,787	62,624	291,127	60,537	41,586	27,732	22,186	15,934
Number of persons engaged, total.....	31,706	3,497	1,051	22,519	5,715	15,052	4,370	2,574	960	466	360
Production and development workers (average for year).....	23,659	2,987	872	16,087	4,784	10,054	3,609	2,192	724	294	252
January.....	26,372	3,188	1,167	17,601	5,775	10,517	4,612	2,941	720	305	251
February.....	25,699	3,347	1,144	17,271	5,373	10,593	4,148	2,472	707	293	226
March.....	24,423	3,147	897	16,569	5,371	9,874	3,769	2,416	709	291	229
April.....	22,406	2,766	748	14,985	4,817	8,897	3,672	2,323	735	291	248
May.....	23,594	2,716	682	15,948	4,842	9,854	3,966	2,554	722	292	242
June.....	22,888	2,732	731	15,291	4,226	9,803	3,922	2,579	697	293	246
July.....	22,133	2,653	717	15,578	4,171	10,181	2,972	1,573	687	295	243
August.....	23,172	2,757	671	16,307	4,569	10,505	3,121	1,637	736	296	251
September.....	24,397	3,186	1,119	16,229	4,543	10,441	3,979	2,539	734	294	269
October.....	23,784	3,205	1,140	15,953	4,552	10,184	3,630	2,218	736	296	260
November.....	23,245	3,326	1,238	15,274	4,329	9,732	3,614	2,173	742	298	289
December.....	23,120	3,420	1,290	15,084	4,758	9,119	3,555	2,150	737	298	324
All other employees.....	7,917	510	179	6,380	930	4,994	714	355	214	171	99
Proprietors and firm members.....	130	...	...	52	1	4	47	27	22	1	9
Performing manual labor.....	83	...	...	27	...	1	40	25	13	1	3
Man-hours worked by production and development workers, total.....1,000..	41,737	5,610	1,864	28,167	7,521	18,524	6,146	3,721	1,337	565	477
At mines, total.....do....	31,634	3,855	936	21,736	7,095	12,635	4,339	2,658	1,321	565	383
Underground.....do....	13,894	2,373	240	8,210	5,223	1,570	3,004	1,819	307	...	...
Open-pit.....do....	9,865	350	345	7,970	97	7,748	665	341	688	379	192
Surface (including mine shops and yards).....do....	7,875	1,132	351	5,556	1,775	3,317	670	498	326	186	191
At preparation plants.....do....	10,103	1,755	928	6,431	426	5,889	1,807	1,063	16	...	94
Man-hours spent on development and exploration work (included above).....do....	1,661	190	104	1,402	562	570	43	...	15	4	11
Principal expenses designated below, total.....\$1,000..	380,326	36,588	14,090	269,914	61,099	194,103	59,844	46,066	10,419	5,825	3,561
Wages of production and development workers.....do....	120,618	16,174	5,411	83,166	24,922	52,129	16,066	10,427	3,883	1,669	1,329
Salaries of all other employees.....do....	53,769	3,759	1,375	44,838	5,860	34,473	3,007	1,741	1,501	1,199	664
Supplies <sup>3</sup> .....do....	30,320	37,685								535	758
Minerals received for preparation or crushing.....do....	64,662	547	3,036	99,483	17,414	79,389	35,229	29,612	1,280	...	...
Purchased fuel.....do....	17,447	2,189	1,679	13,824	1,304	12,369	797	552	482	269	155
Purchased electricity.....do....	14,000	2,551	2,589	9,397	2,157	6,432	1,612	1,208	246	194	194
Contract work.....do....	29,510	3,683		19,206	9,442	9,311	3,133	2,526	3,027	1,959	461
Purchased machinery installed.....do....	18,516	2,651	166	10,000	2,769	6,302	3,363	2,851	776	508	1,726
Capital expenditures, total.....do....	42,749	5,697	2,366	30,645	15,092	12,721	3,872	3,320	1,524	860	1,011
Development and exploration of mineral property.....do....	10,913	2,711		7,135	3,809	2,309		202	706	291	
Preparation plant construction and other construction.....do....	11,944	1,037	2,235	10,639	4,021	5,245	509	97	68	60	52
New machinery and equipment.....do....	18,675			7,262	5,125	5,125	2,567	2,282	509		959
Used plant and equipment.....do....	1,217	1,949	131	12,871	...	42	796	739	241		...
Energy used.....million kwh equivalent..	11,106	1,738	1,239	8,362	812	7,460	782	427	155	80	69
Coal.....do....	791	165	(D)	624	68	554	(4)	(4)	2	(4)	...
Fuel oil.....do....	1,782	138	82	1,544	70	1,471	29	25	48	(D)	23
Gas.....do....	1,574	(4)	...	105	(D)	(D)	1,469	(D)	...	...	...
Other fuels and undistributed <sup>5</sup> .....\$1,000..	2,117	47	(D)	1,452	(D)	(D)	394	(D)	178	(D)	46
Electric energy purchased.....million kwh..	978	223	110	542	134	363	181	123	14	7	18
Electric energy generated and used.....do....	900	...	...	896	(D)	(D)	...	...	(D)	(D)	...

D Withheld to avoid disclosing figures for individual companies. <sup>†</sup>Revised.<sup>1</sup>Includes manganese iron ore valued chiefly for its iron content.<sup>2</sup>Includes iron ore shipped by establishments not classified in the iron ores industry. The iron content (natural percent) of usable iron ore produced, according to the U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook: 1958, was: for United States, 53.0; for Middle Atlantic, 62.1; for North Central, 53.8; for Michigan, 53.1; for Minnesota, 54.0; for Alabama, 37.7; for Mountain, 50.1; and for Utah, 49.6.<sup>3</sup>Includes the cost of products bought and resold without further processing.<sup>4</sup>Represents less than one-half of the unit of measure specified.<sup>5</sup>Undistributed fuels costs amounted to \$224 thousand for the United States.



Table 3B.—Detailed Statistics for the Industry,

Item	All estab- lish- ments, total	Producing establishments						
		Total	Mines only			Mines with preparation plants		
			Total	Open-pit	Under- ground	Total	Open-pit <sup>1</sup>	Under- ground
1 Number of establishments, total.....	242	213	95	59	36	110	99	11
2 With 0-19 employees.....	113	92	48	45	3	42	42	...
3 With 20-99 employees.....	57	50	15	8	7	33	31	2
4 With 100 employees and over.....	72	71	32	6	26	35	26	9
5 Including mines.....	232	205	95	59	36	110	99	11
6 Including preparation plants.....	123	118	xxx	xxx	xxx	110	99	11
7 Crude iron ore mined, total <sup>2</sup> .....1,000 long tons..	109,266	109,265	39,985	26,800	13,185	69,280	64,788	4,492
8 Direct-shipping ore.....do....	32,819	32,819	39,985	26,800	13,185	69,280	64,788	4,492
9 Beneficiating-grade ore.....do....	76,446	76,446						
10 Usable iron ore shipped <sup>2,3</sup> .....do....	68,530	68,530	23,907	13,433	10,474	34,153	31,134	3,019
11 Value of shipments and receipts, total.....\$1,000..	681,938	681,938	216,683	116,108	100,575	332,670	275,966	56,704
12 Beneficiating-grade iron ore and concentrates shipped to agglomeration plants <sup>2</sup> .....do....	46,550	46,550	28,277	116,108	100,575	18,273	275,966	56,704
13 Net shipments and receipts.....do....	635,388	635,388	188,406			314,397		
14 Value added in mining.....do....	500,232	501,815	188,282	100,679	87,603	255,929	214,853	41,076
15 Number of persons engaged, total.....	431,706	27,475	11,525	3,068	8,457	14,106	9,327	4,779
16 Production and development workers (average for year)....	23,659	23,276	10,052	2,460	7,592	11,721	7,710	4,011
17 January.....	26,372	25,813	12,308	2,845	9,463	11,997	7,257	4,740
18 February.....	25,699	25,095	11,801	2,879	8,922	11,784	7,465	4,319
19 March.....	24,423	23,853	11,606	2,648	8,958	10,720	6,679	4,041
20 April.....	22,406	22,049	10,607	2,419	8,188	9,920	6,172	3,748
21 May.....	23,594	23,260	10,506	2,289	8,217	11,243	7,266	3,977
22 June.....	22,888	22,589	9,279	2,254	7,025	11,810	7,900	3,910
23 July.....	22,133	21,832	8,224	2,260	5,964	12,109	8,220	3,889
24 August.....	23,172	22,882	8,827	2,313	6,514	12,559	8,745	3,814
25 September.....	24,397	24,108	9,558	2,307	7,251	13,050	8,946	4,104
26 October.....	23,784	23,445	9,177	2,265	6,912	12,786	8,690	4,096
27 November.....	23,245	22,900	9,034	2,371	6,663	12,387	8,170	4,217
28 December.....	23,120	22,842	9,499	2,299	7,200	11,879	7,645	4,234
29 All other employees.....	47,917	4,097	1,420	556	864	2,336	1,568	768
30 Proprietors and firm members.....	130	102	53	52	1	49	49	...
31 Performing manual labor.....	83	74	37	37	...	37	37	...
32 Man-hours worked by production and development workers, total.....1,000..	41,737	41,036	16,600	4,536	12,064	21,512	14,562	6,950
33 At mines, total.....do....	31,634	30,944	16,285	4,221	12,064	14,659	9,298	5,361
34 Underground.....do....	13,894	13,725	9,395	...	9,395	4,330	(D)	(D)
35 Open-pit.....do....	9,865	9,564	3,082	3,082	...	6,482	6,482	...
36 Surface (including mine shops and yards).....do....	7,875	7,655	3,808	1,139	2,669	3,847	(D)	(D)
37 At preparation plants.....do....	10,103	10,092	315	315	...	6,853	5,264	1,589
38 Man-hours spent on development and exploration work (included above).....do....	1,661	1,373	711	95	616	657	532	125
39 Principal expenses designated below, total.....\$1,000..	4380,326	339,682	94,562	33,773	60,789	157,709	117,187	40,522
40 Wages of production and development workers.....do....	120,618	118,572	51,265	12,516	38,749	59,150	39,875	19,275
41 Salaries of all other employees.....do....	453,769	27,496	9,260	3,977	5,283	15,655	11,289	4,366
42 Supplies.....do....	580,320	578,055	626,848	614,535	10,979	52,280	41,005	11,275
43 Minerals received for preparation or crushing.....do....	64,662	64,662	...	...	...	...	...	...
44 Purchased fuel.....do....	17,447	17,236	2,398	1,723	675	9,443	8,557	886
45 Purchased electric energy.....do....	14,000	13,678	4,791	1,022	3,769	7,876	5,664	2,212
46 Contract work.....do....	29,510	19,983	(6)	(6)	1,334	13,305	10,797	2,508
47 Purchased machinery installed.....do....	18,516	16,447	4,045	1,117	2,928	10,922	7,624	3,298
48 Capital expenditures, total.....do....	42,749	29,938	9,681	2,968	6,713	17,085	12,534	4,551
49 Development and exploration of mineral property.....do....	10,913	9,555	...	563	3,685	5,306	4,485	821
50 Preparation plant construction and other construction.....do....	11,944	7,001	5,054	621	185	5,550	4,453	1,097
51 New machinery and equipment.....do....	18,675	12,165	4,627	1,552	2,831	5,307	3,348	1,959
52 Used plant and equipment.....do....	1,217	1,217	...	232	12	922	248	674
53 Energy used.....million kwh equivalent..	11,106	11,035	1,220	594	626	6,252	5,425	827
54 Coal.....1,000 short tons..	791	791	23	1	22	441	383	58
55 Fuel oil.....1,000 barrels..	1,782	1,771	319	269	50	931	855	76
56 Gas.....million cu. ft..	1,574	1,574	361	...	361	1,029	904	125
57 Other fuels and undistributed <sup>8</sup> .....\$1,000..	2,117	1,978	344	294	50	1,517	1,428	89
58 Electric energy purchased.....million kwh..	978	961	301	53	248	582	390	192
59 Electric energy generated and used.....do....	900	900	(D)	(D)	(D)	444	444	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes two combination open-pit and underground mines.<sup>2</sup>See table 3A, footnote 1.<sup>3</sup>See table 3A, footnote 2.

by Selected Types of Operation, in the United States: 1958

Producing establishments—Continued										Nonproducing establish- ments	
Preparation plants only	Underground mines by principal mining method (included in preceding columns)				Preparation plants by principal preparation method (included in preceding columns)						
	Open stoping	Block caving	Sublevel caving	Shrinkage stop- ing and other	Log washing	Heavy density separation	Agglomeration	Jigging and other			
8	21	5	12	9	42	16	12	48	29	1	
2	1	...	1	1	29	...	1	14	21	2	
2	5	...	3	1	12	6	1	16	7	3	
4	15	5	8	7	1	10	10	18	1	4	
xxx	21	5	12	9	42	16	7	45	27	5	
8	7	2	...	2	42	16	12	48	5	6	
xxx	8,145	3,994	3,527	2,011	6,135	15,923	17,028	30,194	...	7	
xxx	8,145	3,994	3,527	2,011	655	15,923	17,028	7,218	...	8	
xxx			...		5,480			22,976	...	9	
10,470	6,318	2,248	3,346	1,581	2,458	7,459	15,564	19,142	...	10	
132,585	78,883	31,768	28,464	18,164	19,345	61,091	197,336	187,483	...	11	
{ 132,585 }	78,883	31,768	{ 28,464 }	{ 18,164 }	19,345	61,091	197,336	{ 14,802 }	...	12	
								172,681	...	13	
57,604	64,265	23,595	24,718	16,101	16,158	47,775	98,057	151,543	(5)	14	
1,844	5,962	3,106	2,901	1,267	903	2,117	6,401	6,529	519	15	
1,503	5,030	2,836	2,612	1,125	721	1,823	5,142	5,538	383	16	
1,508	6,591	3,126	3,126	1,360	591	1,916	5,614	5,384	559	17	
1,510	5,944	2,879	3,127	1,291	576	1,693	5,615	5,410	604	18	
1,527	5,685	2,863	3,113	1,338	564	1,410	5,031	5,242	570	19	
1,522	5,198	2,884	2,747	1,107	530	1,464	4,887	4,561	357	20	
1,511	5,400	2,873	2,763	1,158	721	1,879	4,881	5,273	334	21	
1,500	5,348	2,894	1,739	954	888	1,984	4,950	5,488	299	22	
1,499	4,216	2,876	1,734	1,027	866	2,066	5,005	5,671	301	23	
1,496	4,096	2,901	2,330	1,001	866	2,181	5,035	5,973	290	24	
1,500	5,214	2,857	2,273	1,011	871	2,231	5,406	6,042	289	25	
1,482	4,872	2,881	2,257	998	862	2,114	5,321	5,971	339	26	
1,479	4,940	2,706	2,236	998	747	1,820	5,624	5,675	345	27	
1,464	5,052	2,750	2,627	1,005	688	1,777	5,667	5,211	278	28	
341	931	270	289	142	145	292	1,259	981	108	29	
...	1	...	...	...	37	2	...	10	28	30	
...	...	...	...	...	31	1	...	5	9	31	
2,924	8,201	4,796	3,983	2,034	1,358	3,260	10,237	9,581	701	32	
...	7,366	(D)	3,983	(D)	1,035	2,457	3,742	7,425	690	33	
xxx	5,657	3,280	3,105	(D)	...	512	957	2,861	169	34	
xxx	...	...	...	...	800	1,130	1,570	2,982	301	35	
...	1,709	(D)	878	(D)	235	815	1,215	1,582	220	36	
2,924	835	(D)	...	(D)	323	803	6,495	2,156	11	37	
5	221	197	193	130	53	169	124	316	288	38	
87,411	46,670	25,843	18,687	10,111	7,902	26,460	140,158	70,600	15,188	39	
8,157	25,108	14,326	12,358	6,232	3,234	9,275	28,488	26,310	2,046	40	
2,581	4,659	2,022	2,007	961	1,106	2,200	9,136	5,794	817	41	
{ 5,612,663 }	11,863	5,664	{ 2,543 }	2,184	2,235	612,572	{ 23,143 }	524,371	2,265	42	
57,604			...	...			54,341	3,865	...	43	
5,395	700	620	167	74	528	567	12,200	1,543	211	44	
1,011	2,654		1,608		340	1,846	3,019	3,682	322	45	
(6)	1,686	3,211	{ 4 }	660	{ 459 }	(6)	9,831	5,035	9,527	46	
1,480	2,360	3,332	422	112	603	1,372	5,573	4,854	2,069	47	
3,172	4,645	4,654	998	967	978	3,041	8,828	7,410	12,811	48	
{ 646 }	{ 2,085 }		{ 631 }		{ 490 }	1,529	2,200	1,088	1,358	49	
	287		...	967		153	793	3,198	2,051	4,943	50
	1,599		367					3,355	3,520	6,510	51
2,526	674	2,532	...		335	719	75	751	...	52	
3,563	696	514	172	71	158	291	8,562	804	71	53	
327	31	41	7	1	(7)	2	760	6	(7)	54	
521	36	65	14	11	32	69	1,193	158	11	55	
184	486	...	...	...	...	...	1,010	203	(7)	56	
117	91	23	14	11	342	182	486	624	139	57	
78	226	83	90	41	17	112	261	270	17	58	
(D)	(D)	(D)	...	...	(D)	...	(D)	(D)	...	59	

<sup>4</sup>Includes figures for separately reported central offices and related facilities. These were not distributed by type of operation.

<sup>5</sup>See table 3A, footnote 3.

<sup>6</sup>Figures for cost of contract work are combined with figures for cost of supplies.

<sup>7</sup>Less than one-half of the unit of measure specified.

<sup>8</sup>See table 3A, footnote 5.



## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 4.—Selected Statistics for Establishments, Classified by Employment Size,  
for the United States: 1958

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1011	IRON ORES:											
	Number of establishments.....	242	71	20	22	32	25	43	17	7	5	...
	All employees:											
	Number.....	<sup>1</sup> 31,576	104	134	289	1,063	1,894	6,659	5,705	5,038	6,978	...
	Payroll.....\$1,000..	<sup>1</sup> 174,387	483	472	1,454	5,931	10,233	37,016	30,675	26,123	35,944	...
	Production and develop- ment workers:											
	Number.....	23,659	83	104	233	862	1,572	5,764	5,023	4,371	5,647	...
	Man-hours.....1,000..	41,737	146	174	421	1,715	2,684	10,298	8,654	7,631	10,014	...
	Wages.....\$1,000..	120,618	302	387	977	4,682	7,976	30,739	25,720	22,020	27,815	...
	Value added in mining.....do....	500,232	6,096	1,065	4,281	19,477	54,097	144,247	145,352	56,330	69,287	...
	Value of shipments and receipts.....do....	681,938	9,223	1,837	6,188	27,277	61,358	183,759	190,806	73,679	127,811	...
	Capital expenditures.....do....	42,749	1,052	135	334	11,617	2,600	7,671	4,768	7,880	6,692	...
	Number of producing estab- lishments by type of operation, total.....	213	54	17	21	26	24	42	17	7	5	...
	Mines without prepa- ration plants:											
	Open-pits.....	59	29	10	6	3	5	3	1	2	...	...
	Underground mines.....	36	1	1	1	1	6	16	6	3	1	...
	Mines with preparation plants:											
	Open-pits.....	97	24	6	12	18	12	19	4	1	1	...
	Combination open-pits and underground mines....	2	...	...	...	...	1	...	1	...	...	...
	Underground mines.....	11	...	...	...	2	...	2	4	1	2	...
	Preparation plants only.....	8	...	...	2	2	...	2	1	...	1	...

<sup>1</sup>Includes figures for separately reported central offices and related facilities. These were not distributed by employment size.

Table 5.--Industry Product Analysis, Summary of Industry Shipments and Receipts and Net Shipments of Primary Products for the United States: 1958 and 1954

Ind. code	Industry and year	Value of shipments and receipts of establishments classified in the industry					Value of net shipments of primary products of the industry shipped by establishments in all industries		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total (produced in all industries)	Produced in this industry	Produced in other industries
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1011	Iron ores.....1958..	681,938	(D)	(D)	657	(D)	624,841	(D)	(D)
	.....1954..	547,218	(D)	(D)	615	...	537,688	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.

Table 6A.--Primary Products of the Iron Ores Industry Produced in All Industries, by Regions and States: 1958 and 1954

Product, region, and State	1958						1954					
	Production	Shipments including inter-plant transfers		Minerals prepared			Production	Shipments including inter-plant transfers		Minerals prepared		
		Quantity	Value	Produced and prepared at same establishment	Received from other establishments for preparation			Quantity	Value	Produced and prepared at same establishment	Received from other establishments for preparation	
					Quantity	Cost					Quantity	Cost
	(1,000 long tons)	(1,000 long tons)	(\$1,000)	(1,000 long tons)	(1,000 long tons)	(\$1,000)	(1,000 long tons)	(1,000 long tons)	(\$1,000)	(1,000 long tons)	(1,000 long tons)	(\$1,000)
United States, total:												
Crude iron ore, total <sup>1</sup> .....	109,266	50,586	311,292	59,949	19,935	57,360	107,358	50,466	324,029	<sup>2</sup> 57,529	<sup>2</sup> 2,667	<sup>2</sup> 12,837
Direct-shipping ore.....	32,819	34,051	278,781	xxx	xxx	xxx	49,143	48,391	315,971	xxx	xxx	xxx
Beneficiating-grade ore.....	76,446	16,535	32,511	59,949	19,935	57,360	58,215	2,075	8,058	<sup>2</sup> 57,529	<sup>2</sup> 2,667	<sup>2</sup> 12,837
Crude manganiferous iron ore (included above), total.....	882	(D)	(D)	(NA)	(NA)	(NA)	586	(D)	(D)	(NA)	(NA)	(NA)
Direct-shipping ore.....	193	182	1,290	(NA)	(NA)	(NA)	85	89	535	(NA)	(NA)	(NA)
Beneficiating-grade ore.....	689	(D)	(D)	(NA)	(NA)	(NA)	501	(D)	(D)	(NA)	(NA)	(NA)
Iron concentrates, total.....	34,569	22,535	190,364	12,074	881	7,302	(NA)	23,132	159,262	<sup>4</sup> 5,530	( <sup>3</sup> )	( <sup>3</sup> )
For consumption.....	20,819	20,781	176,325	xxx	xxx	xxx	23,548	23,132	159,262	xxx	xxx	xxx
For agglomeration.....	13,750	1,754	14,039	12,074	881	7,302	(NA)			<sup>4</sup> 5,530	( <sup>3</sup> )	( <sup>3</sup> )
Manganiferous iron concentrates (included above).....	244	227	1,752	...	...	...	396	398	2,346	...	...	...
Iron agglomerates.....	13,792	13,698	169,735	xxx	xxx	xxx	5,531	5,476	62,455	xxx	xxx	xxx
Receipts for preparing minerals on a custom or toll basis (included in value of concentrates and agglomerates above)	xxx	xxx	1,451	xxx	xxx	xxx	xxx	xxx	321	xxx	xxx	xxx
Middle Atlantic:												
Crude iron ore.....	7,331	(D)	(D)	7,200	(D)	(D)	<sup>5</sup> 4,088	<sup>5</sup> 3,988	<sup>5</sup> 48,179	<sup>6</sup> 10,893	( <sup>6</sup> )	(D)
Iron concentrates, total.....	3,190	787	14,429	2,210	(D)	(D)	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	(D)
For consumption.....	809	787	14,429	xxx	xxx	xxx	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	xxx	xxx	xxx
For agglomeration.....	2,381			2,210	(D)	(D)	(NA)	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	(D)
Iron agglomerates.....	2,239	2,236	31,627	xxx	xxx	xxx	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	xxx	xxx	xxx
New York:												
Crude iron ore.....	4,621	(D)	(D)	(D)	...	...	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Direct-shipping iron ore, iron concentrates for consumption, and iron agglomerates.....	2,127	1,943	24,325	<sup>7</sup> 1,671	(D)	(D)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
North Central:												
Crude iron ore, total <sup>1</sup> .....	86,010	41,386	236,287	44,068	16,486	32,973	80,575	(D)	<sup>2</sup> 272,656	<sup>2</sup> 39,350	( <sup>2</sup> )	(D)
Direct-shipping ore.....	27,155	26,608	212,729	xxx	xxx	xxx	41,278	40,355	267,224	xxx	xxx	xxx
Beneficiating-grade ore.....	58,855	14,778	23,558	44,068	16,486	32,973	39,297	(D)	<sup>5</sup> 5,432	<sup>2</sup> 39,350	( <sup>2</sup> )	(D)
Iron concentrates, total.....	25,926	17,894	143,980	(D)	(D)	(D)	(NA)	18,705	125,288	<sup>4</sup> 1,558	( <sup>4</sup> )	(D)
For consumption.....	16,283	17,894	143,980	xxx	xxx	xxx	18,993	18,705	125,288	xxx	xxx	xxx
For agglomeration.....	9,643			(D)	(D)	(D)	(NA)			<sup>4</sup> 1,558	( <sup>4</sup> )	(D)
Iron agglomerates.....	9,399	9,307	103,083	xxx	xxx	xxx	1,391	1,335	12,398	xxx	xxx	xxx

See footnotes at end of table.



Table 6A.--Primary Products of the Iron Ores Industry Produced in All Industries,  
by Regions and States: 1958 and 1954--Continued

Product, region, and State	1958						1954					
	Production	Shipments including inter-plant transfers		Minerals prepared			Production	Shipments including inter-plant transfers		Minerals prepared		
		Quantity	Value	Produced and prepared at same establishment (1,000 long tons)	Received from other establishments for preparation			Quantity	Value	Produced and prepared at same establishment (1,000 long tons)	Received from other establishments for preparation	
					Quantity (1,000 long tons)	Cost (\$1,000)					Quantity (1,000 long tons)	Cost (\$1,000)
	(1,000 long tons)	(1,000 long tons)	(\$1,000)	(1,000 long tons)	(1,000 long tons)	(\$1,000)	(1,000 long tons)	(1,000 long tons)	(\$1,000)	(1,000 long tons)	(1,000 long tons)	(\$1,000)
North Central--Continued												
Michigan:												
Crude iron ore <sup>1</sup> .....	9,172	7,523	63,941	(D)	(D)	(D)	11,223	(D)	(D)	(NA)	(NA)	(NA)
Direct shipping iron ore (included above), iron concentrates for consumption, and iron agglomerates <sup>2</sup>	8,509	8,254	71,738	...	(D)	(D)	10,765	9,723	<sup>10</sup> 71,697	...	...	...
Minnesota:												
Crude iron ore, total <sup>1</sup> .....	74,862	32,953	164,577	42,080	16,089	29,552	67,436	(D)	<sup>10</sup> 193,339	<sup>2</sup> 38,163	( <sup>2</sup> )	(D)
Direct-shipping ore.....	18,400	32,953	164,577	{ xxx 42,080	xxx 16,089	xxx 29,552	29,328	29,474	188,949	xxx 238,163	xxx (2)	xxx (D)
Beneficiating-grade ore.....	56,462											
Crude manganiferous iron ore (included above), total.....	755	106	736	(NA)	(NA)	(NA)	<sup>11</sup> 443	<sup>11</sup> 449	<sup>11</sup> 2,674	(NA)	(NA)	(NA)
Direct-shipping ore.....	66	106	736	{ xxx (NA)	xxx (NA)	xxx (NA)	(NA)	(NA)	(NA)	xxx (NA)	xxx (NA)	xxx (NA)
Beneficiating grade ore.....	689											
Iron concentrates, total.....	24,691	16,422	129,492	(D)	(D)	(D)	(NA)	18,260	121,432	<sup>4</sup> 1,558	( <sup>4</sup> )	(D)
For consumption.....	15,511	16,422	129,492	{ xxx (D)	xxx (D)	xxx (D)	18,512	18,260	121,432	{ xxx 41,558	xxx (4)	xxx (D)
For agglomeration.....	9,180											
Manganiferous iron concentrates (included above).....	244	227	1,752	...	...	...	(11)	(11)	(11)	...	...	...
Iron agglomerates.....	8,874	8,789	97,468	xxx	xxx	xxx	1,391	1,335	12,398	xxx	xxx	xxx
Wisconsin and Missouri:												
Crude iron ore.....	1,976	910	7,773	(D)	(D)	(D)	1,916	(D)	(D)	(NA)	(NA)	(NA)
Direct-shipping iron ore (included above) and iron concentrates for consumption.....	1,541	1,236	11,199	...	...	...	1,666	1,603	<sup>10</sup> 12,091	...	...	...
South:												
Crude iron ore, total.....	8,092	4,592	41,250	5,484	(D)	(D)	13,266	(D)	<sup>10</sup> 22,585	<sup>12</sup> 11,258	( <sup>2</sup> )	(D)
Direct-shipping ore.....	865	4,592	41,250	{ xxx 5,484	xxx (D)	xxx (D)	3,492	3,490	18,443	xxx 121,258	xxx (2)	xxx (D)
Beneficiating-grade ore.....	7,227											
Iron concentrates, total.....	3,443	1,923	13,856	(D)	(D)	(D)	<sup>13</sup> 3,987	<sup>13</sup> 3,971	<sup>13</sup> 30,999	(12)	(12)	(D)
For consumption.....	3,443	1,923	13,856	{ xxx (D)	xxx (D)	xxx (D)	(NA)	(NA)	(NA)	(xxx 12)	xxx (12)	xxx (D)
For agglomeration.....												
Iron agglomerates.....	2,154	2,155	35,025	xxx	xxx	xxx	(13)	(13)	(13)	xxx	xxx	xxx
Alabama:												
Crude iron ore, total.....	5,093	4,528	41,008	<sup>6</sup> 7,499	( <sup>6</sup> )	(D)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Direct-shipping ore.....	802	4,528	41,008	{ xxx 67,499	xxx (6)	xxx (D)	(NA)	(NA)	(NA)	xxx (NA)	xxx (NA)	xxx (NA)
Beneficiating-grade ore.....	4,291											
Iron concentrates and agglomerates	3,800	2,484	33,955	( <sup>6</sup> )	( <sup>6</sup> )	(D)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Texas:												
Crude iron ore.....	2,287	(D)	(D)	2,243	...	...	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Direct shipping iron ore (included above), iron concentrates for consumption, and iron agglomerates	724	716	5,414	(D)	...	...	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Mountain:												
Crude iron ore, total <sup>1</sup> .....	5,042	4,341	30,373	592	(D)	(D)	(D)	(D)	(D)	(12)	(12)	(D)
Direct-shipping ore.....	5,042	{ 4,341	30,373	xxx 592	xxx (D)	xxx (D)	<sup>14</sup> 4,993	<sup>14</sup> 5,155	<sup>14</sup> 35,157	xxx (12)	xxx (12)	xxx (D)
Beneficiating-grade ore.....												
Iron concentrates for consumption.	354	301	1,637	...	...	...	(14)	(14)	(14)	(12)	(12)	(D)
Utah:												
Crude iron ore (direct-shipping)...	3,566	3,463	24,791	...	...	...	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Nevada:												
Direct-shipping iron ore and iron concentrates for consumption....	647	594	3,626	(D)	(D)	(D)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Pacific (California):												
Crude iron ore.....	2,791	(D)	(D)	2,605	...	...	(14)	(14)	(14)	(12)	(12)	(D)
Direct-shipping iron ore and iron concentrates for consumption....	1,876	1,803	18,217	2,605	...	...	(14)	(14)	(14)	(12)	(12)	(D)

D Withheld to avoid disclosing figures for individual companies. NA Not available. xxx Not applicable. <sup>1</sup>Except for materials received from other establishments for preparation, represents only crude iron ores and manganese iron ores produced in the Iron Ores Industry. <sup>2</sup>Figures for crude ore received from others for concentration are combined with figures for crude ore mined and prepared at the same establishment. <sup>3</sup>Figures for concentrates received from others for agglomeration are combined with figures for crude ore received from others for concentration. <sup>4</sup>Figures for materials received from others for agglomeration are combined with figures for material concentrated and agglomerated at the same establishment. <sup>5</sup>Figures for concentrates (except concentrates produced and consumed at the same establishment) and agglomerates are combined with figures for crude iron ore. The total excludes beneficiating-grade ore. <sup>6</sup>Figures for quantity of materials agglomerated are combined with figures for quantity of crude ore concentrated and figures for materials received from others are combined with materials prepared at the same establishment where mined. <sup>7</sup>Represents concentrate fines agglomerated at the same establishments where produced. <sup>8</sup>Includes the value of shipments of secondary products for the Iron Ores Industry. <sup>9</sup>Excludes agglomerates for 1954. <sup>10</sup>Includes the value of shipments of secondary products and receipts for services for the Iron Ores Industry. <sup>11</sup>Figures for manganese iron concentrates are combined with figures for manganese iron ores. <sup>12</sup>Figures for West are combined with those of South. <sup>13</sup>Figures for materials agglomerated are combined with ores concentrated. <sup>14</sup>Figures for agglomerates are combined with figures for concentrates. <sup>15</sup>Figures for Pacific are combined with those for Mountain. Figures for concentrates are combined with figures for direct-shipping ore.

Table 6B.--Shipments of Selected Primary Products of the Iron Ores Industry  
Distributed by Value Per Long Ton: 1958

(Figures which cannot be shown without approximately disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the underlined figure on the same line represents the combined figure)

Product and item	Shipments by average value per long ton f.o.b. mine or plant of <sup>1</sup> --									
	Total	Less than \$4.85	\$4.85-\$6.14	\$6.15-\$6.94	\$6.95-\$7.84	\$7.85-\$8.84	\$8.85-\$9.99	\$10.00-\$12.59	\$12.60-\$17.99	\$18.00 and over
Direct-shipping crude iron ores: <sup>2</sup>										
Quantity shipped.....1,000 long tons..	34,051	302	359	2,998	13,241	11,446	2,328	<u>3,377</u>	(D)	(D)
Percent of total.....	100.0	0.9	1.1	8.8	38.9	33.6	6.8	<u>9.9</u>	(D)	(D)
Value of shipments.....\$1,000..	278,781	1,135	1,937	19,722	98,400	94,379	21,260	<u>41,948</u>	(D)	(D)
Percent of total.....	100.0	0.4	0.7	7.1	35.3	33.9	7.6	<u>15.0</u>	(D)	(D)
Iron concentrates shipped to consumers: <sup>2</sup>										
Quantity shipped.....1,000 long tons..	20,781	318	399	955	5,370	9,564	1,560	2,217	(D)	<u>398</u>
Percent of total.....	100.0	1.5	1.9	4.6	25.9	46.0	7.5	10.7	(D)	<u>1.9</u>
Value of shipments.....\$1,000..	176,325	1,319	2,148	6,396	40,507	78,506	14,413	23,368	(D)	<u>2,668</u>
Percent of total.....	100.0	0.7	1.2	3.6	23.0	44.5	8.2	13.3	(D)	<u>2.2</u>
Iron agglomerates:										
Quantity shipped.....1,000 long tons..	13,698	(D)	...	...	(D)	...	660	10,261	1,770	1,007
Percent of total.....	100.0	(D)	...	...	(D)	...	<u>4.8</u>	74.9	12.9	7.4
Value of shipments.....\$1,000..	169,735	(D)	...	...	(D)	...	<u>5,746</u>	115,536	28,335	20,118
Percent of total.....	100.0	(D)	...	...	(D)	...	<u>3.4</u>	68.1	16.7	11.8

<sup>1</sup>The "average values" are based on the entire shipments of the specified product by each establishment. Thus they are representative of varied average prices among establishments but not of variations within an establishment.

<sup>2</sup>Includes manganese iron ore valued chiefly for its iron content.



Table 7.—Supplies Used in the Iron Ores Industry, by Regions and States, and by Type of Operation:

1958 and 1954

(For the quantity and cost of minerals received for preparation, see table 6A. For the quantity and total cost of purchased fuels and electricity used, see tables 3A and 3B)

Supply used, region, State, and type of operation	Unit of measure	1958		1954		Supply used, region, and State	Unit of measure	1958		1954	
		Quan- tity	Cost (\$1,000)	Quan- tity	Cost (\$1,000)			Quan- tity	Cost (\$1,000)	Quan- tity	Cost (\$1,000)
UNITED STATES						TYPE OF OPERATION—Con.					
Supplies used, total.		xxx	180,320	xxx	75,866	Producing establish- ments—Con.					
Explosives.....	1,000 pounds	53,592	7,690	45,300	7,895	Mines with prepa- ration plants, total:					
Steel-mill shapes and forms.....	Short tons..	30,830	7,379	35,703	5,320	Explosives.....	1,000 pounds	29,785	3,976	(NA)	(NA)
All other supplies.		xxx	164,626	xxx	62,651	Steel-mill shapes and forms.....	Short tons..	15,013	2,996	(NA)	(NA)
Undistributed.....		xxx	625	xxx	...						
REGION AND STATE						Open-pit: <sup>3</sup>					
Middle Atlantic:						Explosives.....	1,000 pounds	24,650	2,808	(NA)	(NA)
Supplies used, total.		xxx	7,685	xxx	28,356	Steel-mill shapes and forms.....	Short tons..	10,859	2,315	(NA)	(NA)
Explosives.....	1,000 pounds	5,197	1,051	6,456	1,196						
Steel-mill shapes and forms.....	Short tons..	2,910	579	3,518	492	Underground:					
All other supplies.		xxx	6,021	xxx	26,668	Explosives.....	1,000 pounds	5,135	1,168	(NA)	(NA)
Undistributed.....		xxx	34	xxx	...	Steel-mill shapes and forms.....	Short tons..	4,154	681	(NA)	(NA)
North Central:											
Explosives.....	1,000 pounds	37,578	5,297	30,332	5,260	Preparation plants only:					
Steel-mill shapes and forms.....	Short tons..	24,379	6,302	30,419	4,571	Steel-mill shapes and forms.....	Short tons..	783	366	(NA)	(NA)
Michigan:											
Explosives.....	1,000 pounds	5,431	1,106	(NA)	(NA)	Underground mines by principal mining method:					
Steel-mill shapes and forms.....	Short tons..	7,814	2,222	(NA)	(NA)	Open stoping:					
Minnesota:						Explosives.....	1,000 pounds	7,529	1,572	(NA)	(NA)
Explosives.....	1,000 pounds	30,634	3,888	20,433	3,497	Steel-mill shapes and forms.....	Short tons..	5,185	1,108	(NA)	(NA)
Steel-mill shapes and forms.....	Short tons..	12,414	3,131	14,200	2,104						
South and West:						Block caving:					
Explosives.....	1,000 pounds	10,817	1,342	8,512	1,439	Explosives and steel-mill shapes and forms.....		xxx	1,907	xxx	(NA)
Steel-mill shapes and forms.....	Short tons..	3,541	498	1,766	257						
TYPE OF OPERATION						Sublevel caving:					
Producing establish- ments, total.....		xxx	178,055	xxx	73,327	Explosives.....	1,000 pounds	2,314	514	(NA)	(NA)
Explosives.....	1,000 pounds	53,043	7,632	(NA)	(NA)	Steel-mill shapes and forms.....	Short tons..	1,783	426	(NA)	(NA)
Steel-mill shapes and forms.....	Short tons..	27,099	6,422	(NA)	(NA)						
All other supplies.		xxx	163,407	xxx	(NA)	Shrinkage stoping and other:					
Undistributed.....		xxx	594	xxx	(NA)	Explosives and steel-mill shapes and forms.....		xxx	492	xxx	(NA)
Mines only:											
Explosives.....	1,000 pounds	23,258	3,656	(NA)	(NA)	Nonproducing establish- ments:					
Steel-mill shapes and forms.....	Short tons..	11,303	3,060	(NA)	(NA)	Explosives.....	1,000 pounds	549	58	(NA)	(NA)
Open-pit:						Steel-mill shapes and forms.....	Short tons..	3,731	957	(NA)	(NA)
Explosives.....	1,000 pounds	14,451	1,801	(NA)	(NA)						
Steel-mill shapes and forms.....	Short tons..	2,885	745	(NA)	(NA)						
Underground:											
Explosives.....	1,000 pounds	8,807	1,855	(NA)	(NA)						
Steel-mill shapes and forms.....	Short tons..	8,418	2,315	(NA)	(NA)						

NA Not available.

<sup>1</sup>Includes the cost of products bought and resold without further processing.<sup>2</sup>Includes the cost of minerals received from other establishments for preparation.<sup>3</sup>Includes combination open-pit and underground mines.

Table 8.—General Statistics for Establishments Classified by Output Per Man-Hour, by Selected Types of Operation, in the United States: 1958

Ind. code	Industry, type of operation, and long tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1011	IRON ORES:									
	All establishments, total.....	242	231,576	2174,387	23,659	41,737	120,618	500,232	681,938	42,749
	Producing establishments:									
	Mines only, total.....	95	11,472	60,525	10,052	16,600	51,265	188,282	216,683	9,681
	Open-pits, total.....	59	3,016	16,493	2,460	4,536	12,516	100,679	116,108	2,968
	0.30-0.99.....	3	348	1,904	292	525	1,535	5,214	6,504	162
	1.00-1.99.....	5								
	2.00-2.99.....	3								
	3.00-3.99.....	2								
	4.00-4.99.....	1								
	5.00-5.99.....	1	2,097	11,393	1,789	3,339	9,172	70,425	80,629	2,119
	6.00-6.99.....	1								
	9.00 and over.....	3								
	Undistributed <sup>3</sup> .....	40								
	Underground mines, total.....	36	8,456	44,032	7,592	12,064	38,749	87,603	100,575	6,713
	0.10-0.19.....	1	1,174	6,447	1,040	1,880	5,504	6,036	7,607	760
	0.40-0.49.....	3								
	0.50-0.59.....	2								
	0.60-0.69.....	1								
	0.70-0.79.....	2	1,523	7,427	1,451	2,188	6,995	12,875	14,249	2,089
	0.80-0.89.....	1								
	0.90-0.99.....	6								
	1.00-1.19.....	9								
	1.20-1.39.....	2	1,829	9,060	1,561	2,407	8,047	19,792	23,469	1,629
	1.40-1.49.....	3								
	1.50-1.59.....	1								
	1.60-1.79.....	2								
	2.40-2.79.....	1	854	5,358	755	1,335	4,542	15,877	17,798	1,524
	Undistributed <sup>3</sup> .....	2								
	Mines with preparation plants, total.....	110	14,057	74,805	11,721	21,512	59,150	255,929	332,670	17,085
	Open-pits, total.....	99	9,278	51,164	7,710	14,562	39,875	214,853	275,966	12,534
	Less than 0.50.....	8	484	2,319	400	568	1,679	1,468	2,757	71
	0.50-0.99.....	8	327	1,487	293	569	1,226	1,847	2,840	6
	1.20-1.99.....	7	808	4,080	714	1,363	3,464	10,597	13,959	1,583
	2.00-2.39.....	5	307	2,092	244	506	1,587	7,243	8,920	52
	2.40-2.79.....	5	1,111	6,141	944	1,681	4,954	32,727	38,493	772
	2.80-2.99.....	4								
	3.00-3.99.....	11								
	4.00-4.99.....	2								
	5.00-5.99.....	4	1,084	6,157	933	1,752	4,766	73,209	79,074	998
	6.00-6.99.....	1								
	8.00-8.99.....	1								
	Undistributed <sup>3</sup> .....	43								
	Underground mines, total.....	11	4,779	23,641	4,011	6,950	19,275	41,076	56,704	4,551
	0.20-0.39.....	2	2,870	13,229	2,359	4,048	10,731	28,156	37,521	622
	0.40-0.49.....	1								
	0.60-0.69.....	3								
	0.70-0.79.....	2								
	1.20-1.39.....	1	1,554	8,150	1,378	2,363	6,802	9,105	13,780	3,844
	Undistributed <sup>3</sup> .....	2								
	Preparation plants only <sup>4</sup> .....	8	1,844	10,738	1,503	2,924	8,157	57,604	132,585	3,172
	Nonproducing establishments (undistributed) <sup>3</sup> .....	29	491	2,863	383	701	2,046	( <sup>5</sup> )	...	12,811

<sup>1</sup>Represents tons of primary products of the industry shipped per man-hour worked by production and development workers.<sup>2</sup>United States total includes employees of separately reported central offices and related facilities, not distributed by type of operation.<sup>3</sup>Represents establishments reporting no shipments of primary products, or no production and development worker man-hours, or cost of contract work amounting to 30 percent or more of production and development worker wages, or number of working proprietors amounting to 30 percent or more of number of production and development workers, or man-hours spent on development and exploration work amounting to 30 percent or more of total man-hours worked by production and development workers.<sup>4</sup>Represents establishments with the following distribution of output per man-hour: Less than 1.00, 2 establishments; 1.00-1.99, 2 establishments; 3.00-3.99, 1 establishment; 4.00-4.99, 1 establishment; 10.00-11.99, 1 establishment; undistributed, 1 establishment.<sup>5</sup>See table 2, footnote 5.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Regions. 1958

Ind. code	Industry, region or division, and ratio of payroll to value added in mining <sup>1</sup>	Estab-lish-ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1011	IRON ORES:									
	United States, total.....	242	31,576	174,387	23,659	41,737	120,618	500,232	681,938	42,749
	Less than 0.10.....	17	1,544	8,290	1,390	2,689	7,000	120,939	155,866	2,492
	0.10-0.19.....	38	3,411	18,811	2,890	5,272	14,985	133,811	154,500	4,085
	0.20-0.29.....	28	3,063	16,968	2,496	4,732	12,886	75,355	119,911	4,140
	0.30-0.39.....	24	3,100	17,973	2,699	4,785	15,067	51,602	60,613	4,387
	0.40-0.49.....	18	4,595	22,469	3,849	6,446	18,257	49,920	62,420	11,822
	0.50-0.59.....	18	4,120	21,691	3,699	6,036	18,564	40,311	49,380	3,274
	0.60-0.69.....	12	1,626	7,819	1,375	2,186	6,923	12,483	16,212	914
	0.70-0.79.....	7	915	5,082	794	1,494	4,179	6,765	10,158	729
	0.80-0.89.....	1								
	0.90-0.99.....	5	588	2,583	518	796	2,137	2,783	4,003	1,087
	1.00 and over.....	18	3,636	20,222	2,868	5,277	14,983	10,755	33,904	4,264
	Undistributed <sup>2</sup> .....	56	4,978	32,479	1,081	2,024	5,637	( <sup>3</sup> )	14,971	5,555
	Middle Atlantic, total.....	12	3,497	19,933	2,987	5,610	16,174	33,242	46,851	5,697
	Less than 0.30.....	1								
	0.30-0.49.....	4	43,093	417,881	42,661	45,144	414,653	431,757	444,045	45,652
	0.50-0.59.....	2								
	0.60-0.69.....	1								
	0.70-0.79.....	1	404	2,052	326	466	1,521	1,485	2,806	45
	1.00 and over.....	2								
	Undistributed <sup>2</sup> .....	1	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
	North Central, total.....	149	22,467	128,004	16,087	28,167	83,166	362,787	484,052	30,645
	Less than 0.10.....	12	1,143	5,868	1,031	1,972	4,946	93,537	98,746	1,178
	0.10-0.19.....	28	2,609	14,136	2,320	4,209	11,972	97,499	114,565	2,565
	0.20-0.29.....	18	2,567	14,328	2,072	3,789	10,724	65,071	107,822	2,976
	0.30-0.39.....	16	2,338	13,532	2,047	3,434	11,343	38,406	44,034	2,084
	0.40-0.49.....	10	2,187	11,805	1,869	3,087	9,422	25,063	30,617	11,084
	0.50-0.59.....	9	2,477	12,426	2,289	3,406	11,105	23,244	26,340	3,092
	0.60-0.69.....	5	636	3,333	565	843	2,835	5,359	6,580	26
	0.70-0.79.....	4	708	3,784	622	1,165	3,201	5,006	7,785	697
	0.80-0.89.....	1								
	0.90-0.99.....	3	244	1,240	222	415	1,084	1,317	1,817	386
	1.00 and over.....	13	3,239	18,567	2,537	4,867	13,675	10,077	32,203	4,229
	Undistributed <sup>2</sup> .....	30	4,319	28,985	513	980	2,859	( <sup>3</sup> )	13,543	2,328
	South, total.....	49	4,323	19,073	3,609	6,146	16,066	60,537	100,799	3,872
	Less than 0.10.....	2								
	0.10-0.19.....	5	447	2,616	400	770	2,221	26,317	54,707	1,459
	0.20-0.29.....	5								
	0.30-0.39.....	5								
	0.40-0.49.....	4								
	0.50-0.59.....	3	1,966	8,088	1,595	2,651	6,630	18,912	24,970	218
	0.60-0.69.....	3								
	0.70-0.79.....	1								
	0.80-0.89.....	2	443	1,700	377	495	1,331	1,654	2,615	726
	0.90-0.99.....	2								
	1.00 and over.....	3								
	Undistributed <sup>2</sup> .....	16	83	228	72	94	166	290	854	83
	West, total.....	32	1,289	7,377	976	1,814	5,212	43,666	50,236	2,535
	Less than 0.10.....	3	5356	52,023	5254	5484	51,337	518,372	522,758	51,393
	0.10-0.19.....	5	429	2,641	283	543	1,543	18,279	19,742	370
	0.20-0.29.....	4								
	0.30-0.39.....	1	174	1,054	140	295	886	3,820	4,065	661
	0.40-0.49.....	2								
	0.50-0.59.....	4								
	0.60-0.69.....	3	312	1,576	284	472	1,378	3,071	3,502	111
	0.70-0.79.....	1								
	Undistributed <sup>2</sup> .....	9	18	83	15	20	68	124	169	...
			( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )

<sup>1</sup>Note that in computing these ratios contract employment serving the establishment is excluded. The cost of contract work in the iron ores industry for 1958 was 16.9 percent of payroll.

<sup>2</sup>Represents establishments with zero or negative value added; establishments with no employees; and for number of employees and payroll, figures for separately reported central offices and related facilities.

<sup>3</sup>See table 2, footnote 5.

<sup>4</sup>Figure for "Undistributed" is combined with figure for "Less than 0.59."

<sup>5</sup>Figure for "Undistributed" is combined with figure for "Less than 0.10."

Table 10.—Value Added in Mining Per Employee by Size of Establishment for the United States: 1958

Ind. code	Industry and value added per employee class <sup>1</sup>	Number of—		Number of establishments with average employment of—						
		Establish- ments	Employees	0-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1011	IRON ORES:									
	All establishments, total.....	242	<sup>2</sup> 31,576	113	32	25	43	17	7	5
	Less than \$3,000.....	30	3,547	23	1	2	1	1	1	1
	\$3,000-\$3,999.....	3	27	3	...	...	...	...	...	...
	\$4,000-\$4,999.....	7	1,095	3	2	...	...	1	1	...
	\$5,000-\$5,999.....	7	344	5	...	...	2	...	...	...
	\$6,000-\$6,999.....	4	491	...	2	1	...	1	...	...
	\$7,000-\$7,999.....	12	2,350	5	...	1	4	...	2	...
	\$8,000-\$8,999.....	7	2,666	4	1	...	1	...	...	2
	\$9,000-\$9,999.....	6	892	1	1	1	1	2	...	...
	\$10,000-\$12,499.....	21	3,760	6	3	3	5	2	1	1
	\$12,500-\$14,999.....	15	1,596	8	2	1	1	3	...	...
	\$15,000-\$17,499.....	11	1,406	2	3	...	4	2	...	...
	\$17,500-\$19,999.....	5	924	3	...	...	1	...	1	...
	\$20,000 and over.....	73	8,249	17	13	15	21	5	1	1
	Negative value added.....	19	517	12	4	1	2	...	...	...
	No employees.....	22	...	22	...	...	...	...	...	...
	Producing establishments, total.....	213	27,373	92	26	24	42	17	7	5
	Open-pit mines, total <sup>3</sup> ....	158	12,294	87	21	18	22	6	3	1
	Less than \$3,000.....	18	2,879	14	...	1	1	1	...	1
	\$3,000-\$3,999.....	3	62	3	...	...	...	...	...	...
	\$4,000-\$4,999.....	4	...	3	1	...	...	...	...	...
	\$5,000-\$5,999.....	5	578	4	...	...	1	...	...	...
	\$6,000-\$6,999.....	2	...	...	1	...	...	1	...	...
	\$7,000-\$7,999.....	5	20	5	...	...	...	...	...	...
	\$8,000-\$8,999.....	4	243	3	...	...	1	...	...	...
	\$9,000-\$9,999.....	2	...	...	1	...	...	...	...	...
	\$10,000-\$12,499.....	9	1,040	6	2	...	...	...	1	...
	\$12,500-\$14,999.....	10	217	7	2	1	...	...	...	...
	\$15,000-\$17,499.....	5	190	2	2	...	1	...	...	...
	\$17,500-\$19,999.....	5	924	3	...	...	1	...	1	...
	\$20,000 and over.....	64	6,072	16	12	14	17	4	1	...
	Negative value added.....	4	69	3	...	1	...	...	...	...
	No employees.....	18	...	18	...	...	...	...	...	...
	Underground mines, total..	47	13,235	3	3	6	18	10	4	3
	Less than \$3,000.....	3	1,645	1	1	...	...	...	1	...
	\$4,000-\$4,999.....	3	...	...	1	...	...	1	1	...
	\$5,000-\$5,999.....	2	224	1	...	...	1	...	...	...
	\$6,000-\$6,999.....	1	...	...	...	1	...	...	...	...
	\$7,000-\$7,999.....	7	2,330	...	...	1	4	...	2	...
	\$8,000-\$8,999.....	2	3,282	...	...	...	...	...	...	2
	\$9,000-\$9,999.....	4	1	1	...	...	1	2	...	...
	\$10,000-\$12,499.....	12	2,720	...	1	3	5	2	...	1
	\$12,500-\$14,999.....	4	...	...	...	...	1	3	...	...
	\$15,000-\$17,499.....	5	3,034	...	...	...	3	2	...	...
	\$20,000 and over.....	4	...	...	...	1	3	...	...	...
	Preparation plants only, total.....	8	1,844	2	2	...	2	1	...	1
	Less than \$3,000.....	1	4,156	1	...	...	...	...	...	...
	\$8,000-\$8,999.....	1	...	...	1	...	...	...	...	...
	\$12,500-\$14,999.....	1	1,688	1	...	...	...	...	...	...
	\$20,000 and over.....	4	...	...	1	...	1	1	...	1
	Negative value added.....	1	( <sup>4</sup> )	...	...	...	1	...	...	...
	Nonproducing establishments, total.....	29	491	21	6	1	1	...	...	...
	Less than \$3,000.....	8	72	7	...	1	...	...	...	...
	\$6,000-\$6,999.....	1	...	...	1	...	...	...	...	...
	\$15,000-\$17,499.....	1	83	...	1	...	...	...	...	...
	\$20,000 and over.....	1	...	1	...	...	...	...	...	...
	Negative value added.....	14	336	9	4	...	1	...	...	...
	No employees.....	4	...	4	...	...	...	...	...	...

<sup>1</sup>See table 9, footnote 1.<sup>2</sup>Includes figures for separately reported central offices and related facilities. These were not distributed by value added per employee class either for the industry as a whole or by type of operation.<sup>3</sup>Includes data for combination open-pit and underground mines.<sup>4</sup>Figure for employees of "Negative value added" establishments are combined with figures for "Less than \$3,000" and "\$8,000 to \$8,999" size classes.



Table 11.--Hourly Earnings of Production and Development Workers by Divisions for Establishments with 10 or more Employees: 1958

Ind. code	Industry by hourly earnings classes	Number of—		Number of establishments with 10 or more employees in—								
		Estab-lish-ments	Em-ploy-ees	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun-tain	Pacific
1011	IRON ORES, TOTAL.....	151	27,626	...	12	30	76	5	14	3	10	1
	Less than \$1.00.....	1	172	...	...	...	1	...	...	...	...	...
	\$1.00-\$1.49.....	5		...	2	...	...	1	2	...	...	...
	\$1.50-\$1.99.....	8	407	...	...	...	2	2	3	1	...	...
	\$2.00-\$2.49.....	11	2,518	...	...	...	7	...	2	1	1	...
	\$2.50-\$2.99.....	58	14,336	...	5	5	36	1	5	...	5	1
	\$3.00-\$3.49.....	53	8,629	...	4	19	25	...	2	...	3	...
	\$3.50-\$3.99.....	7	1,050	...	1	4	1	...	...	1	...	...
	\$4.00-\$4.49.....	3	416	...	...	2	1	...	...	...	...	...
	\$4.50 and over.....	4	98	...	...	...	2	1	...	...	1	...
	No production or develop-ment workers.....	1		...	...	...	1	...	...	...	...	...

<sup>1</sup>Excludes figures for separately reported central offices and related facilities.

Table 12.—Distribution of Operating Companies by Employment Size and by Number of Establishments for the United States: 1958

Ind. code	Industry by establishment count	Number of—			Number of establishments with average employment of—								
		Operat-ing com-panies	Estab-lish-ments	Em-ploy-ees <sup>1</sup>	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1011	IRON ORES, TOTAL.....	127	242	27,864	71	20	22	32	25	43	17	7	5
	Multiunit companies, total....	34	149	27,053	18	8	6	23	22	43	17	7	5
	1 establishment <sup>2</sup> .....	14	14	2,449	3	...	1	4	1	2	2	...	1
	2 establishments.....	6	12	1,144	3	3	...	2	...	2	2	...	...
	3 or 4 establishments.....	4	12	2,910	2	1	...	3	1	2	...	2	1
	5 or 6 establishments.....	3	15	938	3	...	1	4	5	1	1	...	...
	7-9 establishments.....	3	21	5,031	...	...	1	3	5	7	2	2	1
	15-19 establishments.....	2	33	14,581	1	3	1	3	2	14	6	2	1
	20 or more establishments...	2	42		6	1	2	4	8	15	4	1	1
	Single unit companies.....	93	93	811	53	12	16	9	3	...	...	...	...

<sup>1</sup>Excludes figures for separately reported central offices and related facilities.<sup>2</sup>Represents companies having at least one establishment classified in other industries.

# COPPER, LEAD, ZINC, GOLD, AND SILVER ORES

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Industry Groups 102, Copper Ores; 103, Lead and Zinc Ores; and 104, Gold and Silver Ores. The separate industries included in these groups are as follows:

## S.I.C. Code and Title (1957 Edition)

1021--Copper Ores  
1031--Lead and Zinc Ores  
1042--Lode Gold  
1043--Placer Gold  
1044--Silver Ores

Industry 1021, Copper Ores.--This industry represents establishments primarily engaged in mining, milling, or otherwise preparing copper ores. This industry also includes establishments primarily engaged in the recovery of copper concentrates by precipitation and leaching of copper ore. Establishments primarily engaged in the recovery of refined copper by leaching copper concentrates are classified in Major Group 33, Primary Metal Industries.

Industry 1031, Lead and Zinc Ores.--This industry represents establishments primarily engaged in mining, milling, or otherwise preparing lead ores, zinc ores, or lead-zinc ores. Separate subindustry statistics are also shown throughout this report for the two subindustries, Lead ores and Zinc ores. These represent, respectively, establishments primarily engaged in producing ores valued chiefly for lead and for zinc.

Industry 1042, Lode Gold.--This industry represents establishments primarily engaged in mining gold ores from lode deposits. In addition to ore dressing methods such as crushing, grinding, gravity concentration, and froth flotation, this industry includes amalgamation, cyanidation, and the production of bullion at the mine or mill site.

Industry 1043, Placer Gold.--This industry represents establishments primarily engaged in recovery of gold from placer deposits by any method. This industry includes the production of bullion at the mine, mill, or dredge site.

Industry 1044, Silver Ores.--This industry represents establishments primarily engaged in mining, milling, or otherwise preparing silver ores. The production of bullion at the mine or mill site is included.

Establishments producing complex ores were classified in these industries or subindustries on the basis of the relative values of metals contained (gross content) in the products of such establishments. For example, establishments were classified in the Copper Ores Industry if the estimated value of the gross copper content of minerals produced or shipped was greater than for any of the other metals contained. In order to arrive at this classification, unit values f.o.b. mine or mill for copper, lead, zinc, gold, and silver were applied to the reported gross metal content of products to derive the total value for each metal contained. The individual unit values used were based on the f.o.b. mine or mill values of ores, concentrates, precipitates, and mill bul-

lion reported in the 1954 Census of Mineral Industries, adjusted to reflect the changes in the metal prices between 1954 and 1958. These adjusted unit values f.o.b. mine or mill used for classification purposes in the 1958 minerals census were as follows:

<u>Product</u>	<u>Estimated 1958 unit value f.o.b. mine or mill</u>
Copper ores, concentrates, and precipitates .....	\$0.194 per pound
Lead ores and concentrates .....	\$0.091 per pound
Zinc ores and concentrates .....	\$0.055 per pound
Gold ores, concentrates, and bullion .....	\$34.78 per fine ounce
Silver ores, concentrates, and bullion .....	\$0.887 per fine ounce

The total value of shipments and receipts of the copper, lead, zinc, gold, and silver ores industries in the United States in 1958 was \$627 million. The total value of shipments and receipts of the Copper Ores Industry in 1958 amounted to \$458 million, of which the value of primary products of this industry was \$441 million. The total value of shipments and receipts of the Lead and Zinc Ores Industry in 1958 was \$121 million, of which primary products of the industry amounted to \$116 million. Exclusive of Alaska, the total value of shipments and receipts in 1958 for Industry Group 104, Gold and Silver Ores, was \$48 million, of which primary products were in excess of 99 percent, with secondary products amounting to only \$326 thousand. Of the total value of shipments and receipts for the latter group, the Lode Gold Industry accounted for slightly less than \$30 million, the Placer Gold Industry for \$6 million, and the Silver Ores Industry for almost \$13 million. The value of shipments and receipts of the Placer Gold Industry in Alaska amounted to another \$6 million.

The figures above represent gross value of shipments and receipts and contain duplication due to the inclusion of the value of minerals transferred between establishments within these industries for milling as well as the value of the materials prepared from such transferred minerals. For the Copper Ores Industry in 1958, for example, the value of minerals transferred to other establishments for milling was \$83 million, or 18 percent of the gross value of shipments. In the Lead and Zinc Ores Industry, the value of milling ores shipped was \$17 million, or 14 percent of the gross value of shipments. For the Gold and Silver Ores Industries as a group, the value of minerals transferred for milling was \$1 million, or 3 percent of gross value of shipments. Separate figures for the value of gross and net shipments are given in tables 1, 3, and 5A of this report.

The general statistics (employment, payrolls, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments classified in the industry, but also their activities in the production of secondary products and in the performance of contract services for others.



This situation should be taken into account in comparing industry statistics (tables 1-4 and 7-12) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry or subindustry and also the value of net shipments of primary products of the specified industry produced as secondary products by establishments classified in other industries.

Table 5B shows gross content of copper, lead, zinc, gold, and silver in minerals produced or shipped in all mineral industries, as well as the industry of origin. More than 96 percent of the gross copper content of minerals produced or shipped in the United States in 1958 was in products of the Copper Ores Industry, about 85 percent of gross lead content was in products of the Lead Ores Subindustry, and all placer gold and silver were produced in the Placer Gold Industry. By contrast, only 66 percent of the gross zinc content was in products of the Zinc Ores Subindustry, 57 percent of the gold from lode deposits was in products of the Lode Gold Industry, and about 35 percent of the gross silver content was in the products of the Silver Ores Industry.

Comparison of Census and Bureau of Mines Statistics.-- The Bureau of the Census statistics on primary products of the Copper Ores, Lead and Zinc Ores, and Gold and Silver Ores Industries are comparable, in part, with statistics on these products published by the Bureau of Mines. The differences which occur result principally from differences in data collected, coverage, and objectives sought. The most nearly comparable statistics from the two bureaus are shown in the table below. Major reasons for the differences in product statistics are:

(1) Census statistics on crude ores for these industries represent all ores mined by establishments classified in the Copper Ores, Lead and Zinc Ores, Lode Gold, and Silver Ores Industries, separate totals being available for each of the four industries. They do not include materials bearing such metals produced in other industries. Nor do they differentiate between various types of ores which may be produced at the same establishment, such as lead ores which might be produced as a secondary product at an establishment classified in the Silver Ores Industry. Bureau of Mines figures for tonnage of crude ores represent ores of specified types (usually determined by assay content of the ores) irrespective of where these ores were produced. Never-

theless, as indicated in the table below, the Census figures based on a classification of all ores mined at each establishment are roughly comparable to the figures for groups of specified ores as tabulated by the Bureau of Mines.

(2) Census figures for metals contained in all ores, concentrates, and bullion for 1958 represent gross metal content as reported by the respondent. Figures published by the Bureau of Mines represent recoverable metal content. This is the principal reason for the differences between the figures from the two bureaus shown below for metal content of copper, lead, zinc, gold, and silver bearing materials.

(3) Census value figures represent reported values of ores, concentrates, and bullion f.o.b. mine or mill. Bureau of Mines value figures are estimated on the basis of recovered metals prices, thus measuring the value of these metals as they come from the smelter or refinery rather than at the mine and mill level.

(4) The Bureau of the Census figures for milled or prepared products include materials produced from foreign ores. The Bureau of Mines product statistics represent domestic ores only.

(5) The Bureau of Mines excluded from its 1958 statistics shipments made in January of that year if such shipments had been included in their 1957 statistics. Likewise, any shipments actually made during 1957, but not included in Bureau of Mines figures for that year, were added to the 1958 figures. Census statistics represent only mine or mill shipments in 1958.

(6) The Bureau of Mines includes metals recovered at smelters from old slag and smelter cleanings if that metal was not included in their statistics for earlier years. Only metals contained in ores mined or milled in 1958 are included in Census statistics.

(7) The Bureau of the Census excludes small establishments whose value of shipments and reported costs of operation were both below \$500. The Bureau of Mines includes all reports obtained, regardless of size. However, the contribution to products of such establishments is very small.

(8) Some differences in the State statistics result from the assignment by the Bureau of Mines of concentrates produced in one State from ores mined in another to the State in which the mine is located. Census statistics include such concentrates in the State where the mill is located.

## COPPER, LEAD, ZINC, GOLD, AND SILVER ORES

10C-3

QUANTITY AND VALUE OF MINERAL PRODUCTS AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU  
OF MINES FOR THE UNITED STATES AND ALASKA: 1958

Product	Unit of measure	Bureau of the Census statistics			Bureau of Mines statistics		
		Production (Quantity)	Shipments including interplant transfers		Production (Quantity)	Shipments	
			Quantity	Value (\$1,000)		Quantity (recoverable)	Value (\$1,000)
Copper, lead, zinc, gold, and silver ores (produc- tion and net shipments)...	1,000 short tons.....	<sup>1</sup> 129,216	4,384	29,417	134,516	(NA)	(NA)
Metal content of copper, lead, zinc, gold, and silver-bearing materials: <sup>2</sup>							
Copper.....	1,000 pounds.....	1,993,911	(NA)	(NA)	1,958,658	(NA)	<sup>3</sup> 515,127
Lead.....	.....do.....	571,832	(NA)	(NA)	534,754	(NA)	<sup>3</sup> 62,566
Zinc.....	.....do.....	927,407	(NA)	(NA)	824,010	(NA)	<sup>3</sup> 84,113
Gold.....	1,000 fine ounces.....	1,739	(NA)	(NA)	1,739	(NA)	<sup>3</sup> 60,874
Silver.....	.....do.....	35,577	(NA)	(NA)	34,088	(NA)	<sup>3</sup> 30,851
Copper ores:							
Crude ore mined in the Copper Ores Industry (production and net shipments).....	Production: 1,000 short tons of ores or con- centrates	{ 111,957	copper	{ 21,622	<sup>4</sup> 114,824	copper	{ (NA)
Copper concentrates.....		{ 3,307	1,792,489	{ 316,147	(NA)	<sup>4</sup> 1,819,465	{ (NA)
Copper precipitates (Metal content).....		{ (NA)	174,868	{ 31,650	(NA)	198,000	{ (NA)
Lead and zinc ores:							
Crude ore mined in the Lead and Zinc Ores In- dustry (production and net shipments).....	Shipments: 1,000 pounds of metal contained	{ 14,405	lead	{ 5,184	<sup>5</sup> 16,534	lead	{ (NA)
Lead concentrates.....		{ 383	562,970	{ 54,813	(NA)	<sup>5</sup> 515,818	{ (NA)
Zinc concentrates.....		{ 758	924,074	{ 42,679	(NA)	<sup>5</sup> 768,214	{ (NA)
Lode gold:							
Crude ore mined in the Lode Gold Industry (pro- duction and net ship- ments).....	Production: 1,000 short tons of ores or con- centrates.	{ 2,358	gold	{ 1,192	<sup>6</sup> 2,518	gold	{ (NA)
Gold concentrates.....		{ 28	137.3	{ 3,790	(NA)	<sup>7</sup> 110.4	{ (NA)
Mill bullion.....		{ (NA)	680.3	{ 24,090	(NA)	<sup>8</sup> 692.3	{ (NA)
Placer gold.....	1,000 fine ounces.....	362.1	362.5	12,580	371	(NA)	<sup>3</sup> 12,984
Silver ores:							
Crude ore mined in the Silver Ores Industry (production and net shipments).....	Production: 1,000 short tons of ores or con- centrates.	{ 496	silver	{ 1,419	<sup>9</sup> 639	silver	{ (NA)
Silver concentrates and mill bullion.....		{ <sup>10</sup> 21	13,234	{ 11,674	(NA)	<sup>11</sup> 12,910	{ (NA)

<sup>1</sup>Represents only ores mined in the Copper Ores, Lead and Zinc Ores, Lode Gold, and Silver Ores Industries.

<sup>2</sup>Census quantity figures represent gross metal content, and all figures except those for placer gold exclude Alaska. Bureau of Mines quantity figures represent recoverable metal content of mine production.

<sup>3</sup>Estimated by the Bureau of Mines from the quantity of mine production and an average price. For copper, lead, and zinc, represents the weighted average unit price of domestic refined metals delivered to purchasers. For gold, represents the price under authority of the Gold Reserve Act of January 31, 1944. For silver, represents the Treasury buying price for newly mined silver.

<sup>4</sup>Represents "copper ore" sold or treated.

<sup>5</sup>Represents "lead ore," "zinc ore," "lead-zinc ore," and "copper-lead, copper-zinc, and copper-lead-zinc ores."

<sup>6</sup>Represents "gold ore" and "gold-silver ore" produced.

<sup>7</sup>Represents metal contained in "gold ore" and "gold-silver ore" produced less mill bullion produced.

<sup>8</sup>Represents production.

<sup>9</sup>Represents "silver ore" produced.

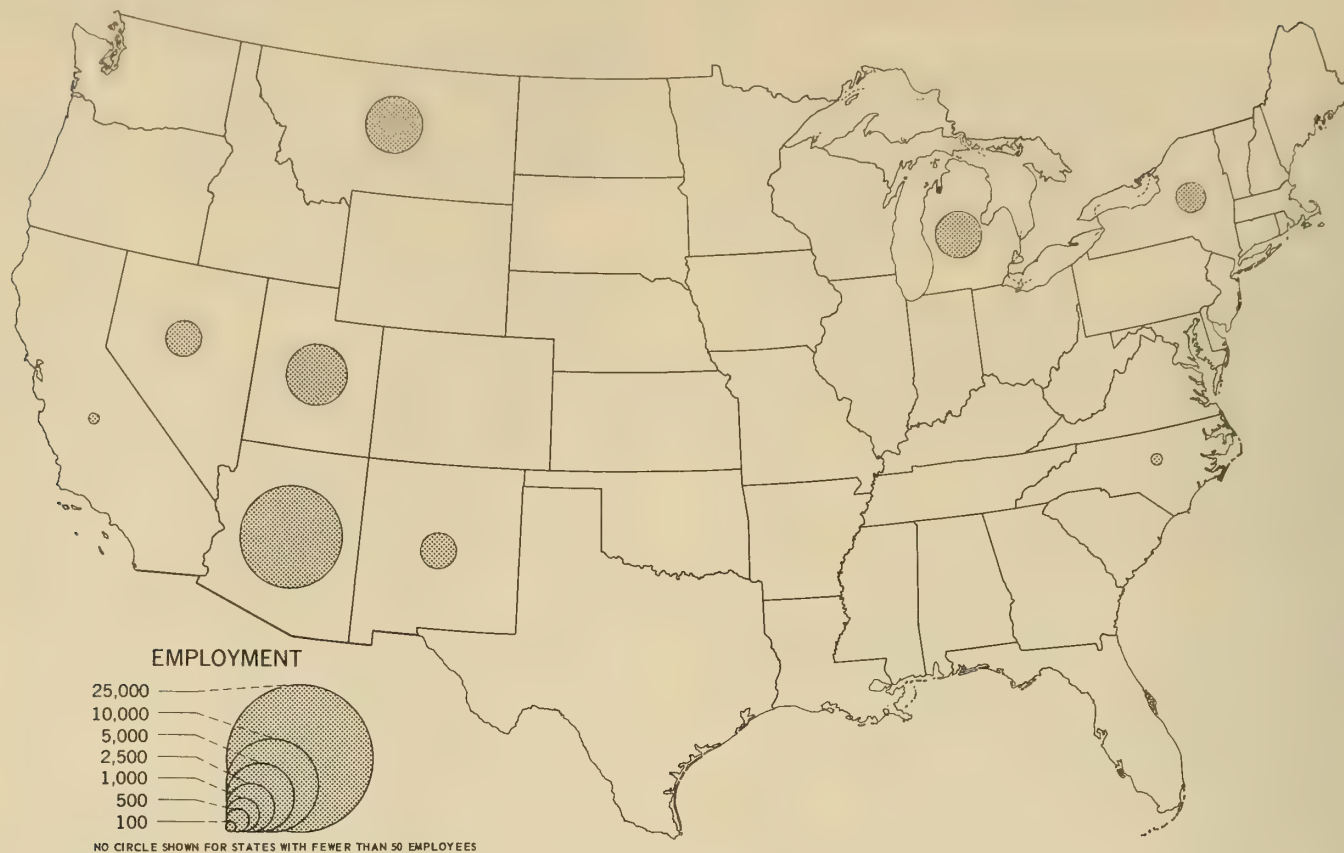
<sup>10</sup>Represents concentrates only.

<sup>11</sup>Represents metal contained in "silver ore" and mill bullion.

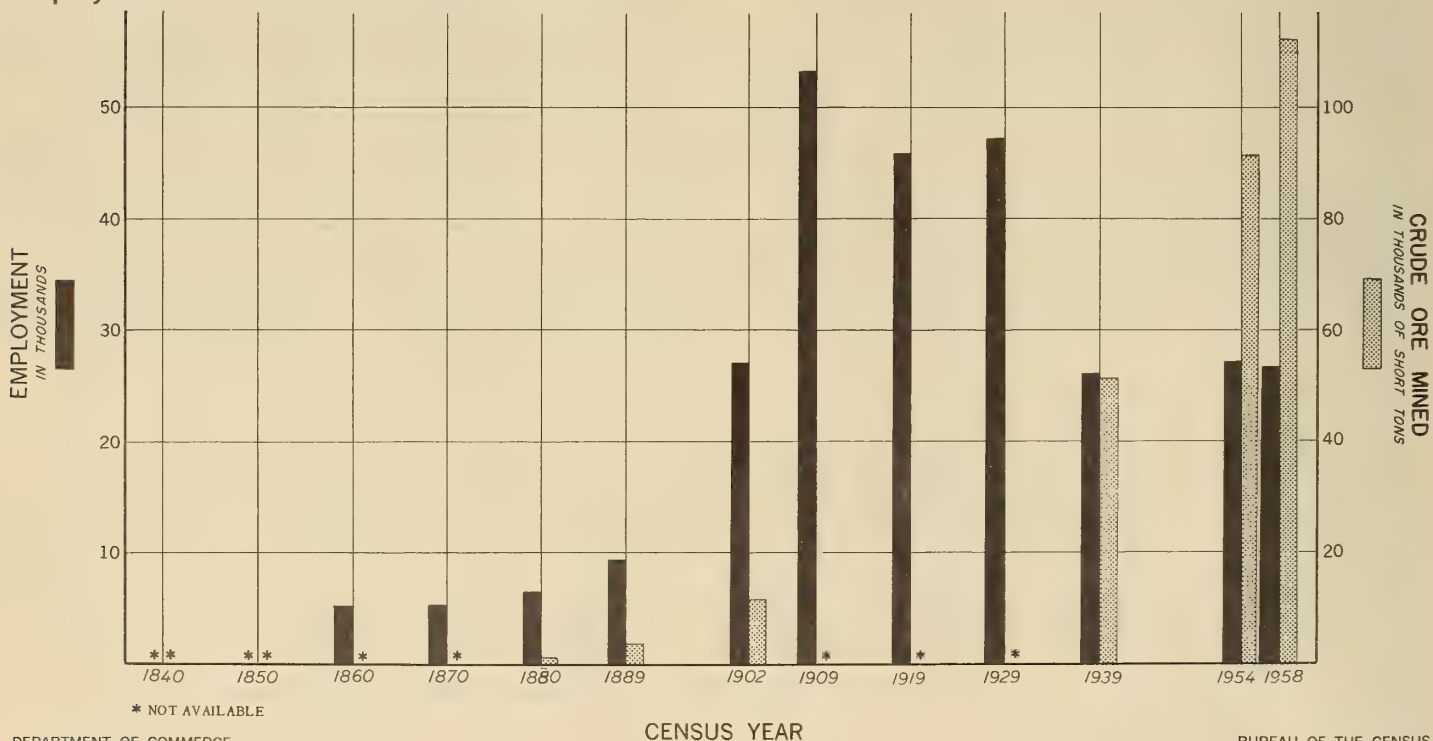


# COPPER ORES

Distribution of Employment by State:1958

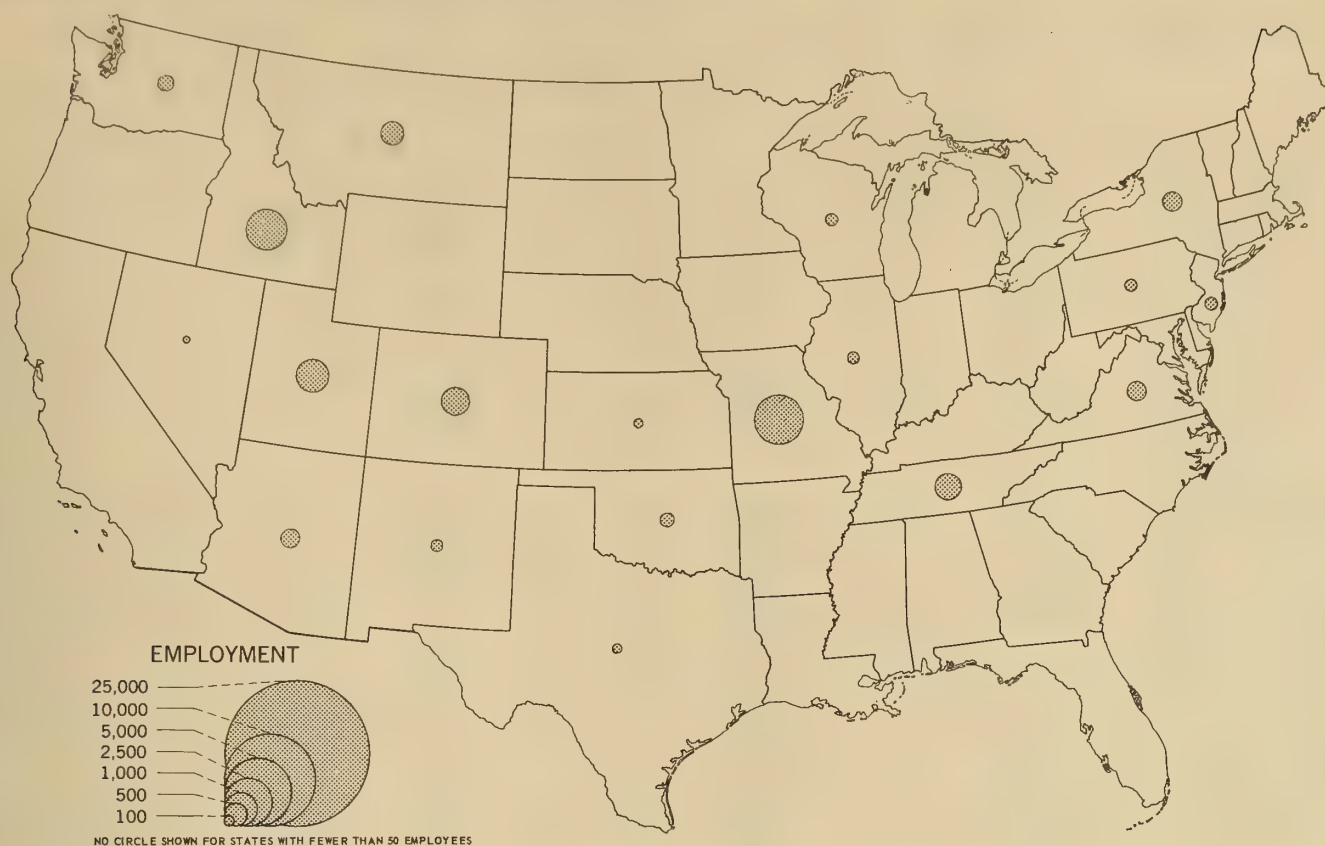


## Employment and Crude Ore Mined:1840-1958



# LEAD AND ZINC ORES

Distribution of Employment by State:1958



## Employment and Crude Ore Mined:1840-1958

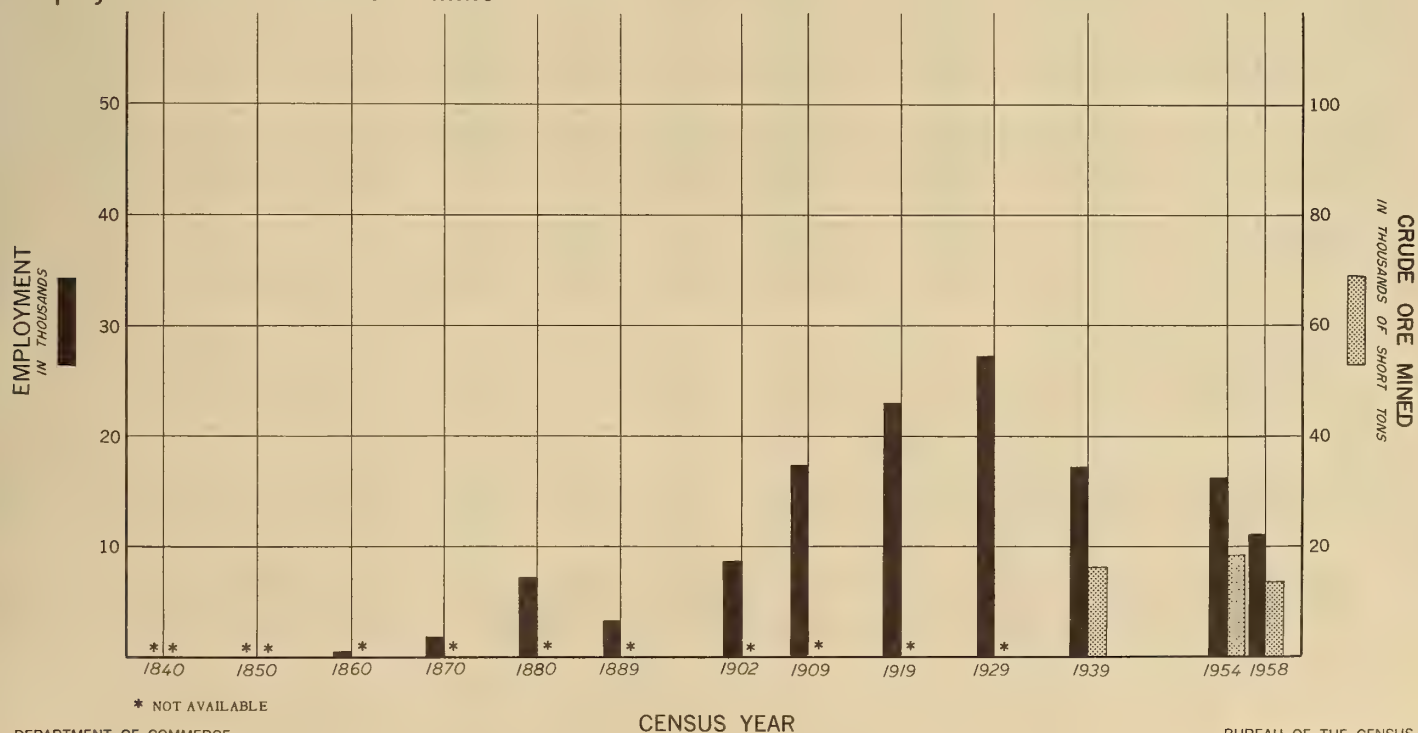




Table 1.—General Statistics for the

(For explanation of column captions see Introduction. For more detailed historical statistics for these

	Industry code, industry or subindustry, and year	Operating companies, number	Establishments, number		All employees		Production and development workers		
			Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)
1	Copper, lead, zinc, gold, and silver ores:								
2	1958.....	706	815	110	42,808	217,892	33,037	64,826	162,422
3	1954.....	1,110	1,265	152	49,210	228,046	39,336	83,593	169,573
4	1939.....	1,529	21,698	(NA)	72,109	113,049	64,683	142,459	93,737
5	1935.....	(NA)	212,198	(NA)	362,206	369,688	57,457	(NA)	59,947
6	1929.....	(NA)	1,502	(NA)	91,159	153,591	84,185	(NA)	133,549
7	1919.....	(NA)	1,979	(NA)	93,394	145,040	86,108	(NA)	128,467
8	1909.....	6,706	6,745	(NA)	118,854	115,394	111,687	(NA)	104,290
9	1902.....	6,985	26,987	(NA)	90,127	83,454	82,166	(NA)	73,367
10	1889.....	(NA)	(NA)	(NA)	68,953	48,902	64,781	(NA)	44,391
11	1880.....	(NA)	23,237	(NA)	33,966	18,742	31,960	(NA)	(NA)
12	1870.....	(NA)	2,544	(NA)	24,026	12,104	(NA)	(NA)	(NA)
13	1860.....	(NA)	7,298	(NA)	49,977	25,591	(NA)	(NA)	(NA)
14	1021—COPPER ORES:								
15	1958.....	112	148	38	27,642	143,501	20,898	41,021	106,357
16	1954.....	179	210	41	27,813	136,065	21,544	46,676	98,491
17	1939.....	35	251	(NA)	26,752	42,564	23,844	51,239	34,486
18	1929.....	(NA)	143	(NA)	347,967	383,336	44,502	(NA)	73,200
19	1919.....	(NA)	195	(NA)	46,896	74,430	43,717	(NA)	66,390
20	1909.....	174	201	(NA)	54,459	53,664	52,330	(NA)	49,858
21	1902.....	159	2159	(NA)	27,572	23,169	526,309	(NA)	21,336
22	1889.....	(NA)	(NA)	(NA)	8,791	6,217	8,523	(NA)	5,810
23	1880.....	(NA)	242	(NA)	6,258	3,214	6,039	(NA)	(NA)
24	1870.....	(NA)	40	(NA)	5,404	2,706	(NA)	(NA)	(NA)
25	1860.....	(NA)	47	(NA)	5,153	1,816	(NA)	(NA)	(NA)
26	1031—LEAD AND ZINC ORES:								
27	1958, total.....	226	288	52	11,227	54,397	8,728	16,734	39,001
28	Lead ores.....	194	211	26	6,883	33,759	5,460	10,397	24,843
29	Zinc ores.....	42	77	26	4,344	20,638	3,268	6,337	14,158
30	1954, total.....	411	520	90	16,566	71,363	13,592	27,554	53,676
31	Lead ores.....	302	343	41	8,720	39,002	7,156	14,654	29,549
32	Zinc ores.....	118	177	49	7,846	32,361	6,436	12,900	24,127
33	1939, total.....	208	260	(NA)	17,725	25,337	15,731	32,481	20,253
34	Lead ores.....	72	286	(NA)	8,052	12,841	7,041	14,194	9,979
35	Zinc ores.....	143	2174	(NA)	9,673	12,496	8,690	18,287	10,274
36	1929, total.....	(NA)	303	(NA)	327,725	344,244	25,907	(NA)	39,191
37	Lead ores.....	(NA)	155	(NA)	314,951	325,463	14,007	(NA)	22,917
38	Zinc ores.....	(NA)	148	(NA)	312,774	318,781	11,900	(NA)	16,274
39	1919.....	(NA)	432	(NA)	23,618	34,543	21,884	(NA)	30,708
40	1909.....	1,040	1,040	(NA)	17,844	11,676	16,962	(NA)	10,564
41	1902.....	582	2584	(NA)	8,886	5,215	57,952	(NA)	4,373
42	1889.....	(NA)	(NA)	(NA)	3,245	1,241	3,122	(NA)	1,159
43	1880.....	(NA)	2206	(NA)	7,483	2,640	7,063	(NA)	(NA)
44	1870, total.....	(NA)	127	(NA)	1,714	601	(NA)	(NA)	(NA)
45	Lead ores.....	(NA)	112	(NA)	1,126	351	(NA)	(NA)	(NA)
46	Zinc ores.....	(NA)	15	(NA)	588	250	(NA)	(NA)	(NA)
47	1860.....	(NA)	43	(NA)	249	61	(NA)	(NA)	(NA)
48	104—GOLD AND SILVER ORES:								
49	1958, total.....	375	379	20	3,939	19,994	3,411	7,071	17,064
50	1042—Lode gold.....	242	244	12	2,586	12,447	2,234	4,602	10,709
51	1043—Placer gold.....	73	74	3	364	1,790	323	723	1,515
52	1044—Silver ores.....	60	61	5	989	5,757	854	1,746	4,840
53	1954, total.....	514	535	21	4,831	20,618	4,200	9,363	17,406
54	Lode gold.....	286	298	14	3,020	12,269	2,634	5,894	10,406
55	Placer gold.....	131	136	4	556	2,311	501	1,255	1,997
56	Silver ores.....	98	101	3	1,255	6,038	1,065	2,214	5,003
57	1939, total.....	121,311	21,378	(NA)	27,586	45,088	25,075	58,665	38,953
58	Lode gold.....	851	2872	(NA)	19,254	31,375	17,591	41,522	27,304
59	Placer gold.....	307	2340	(NA)	3,705	6,794	3,228	8,088	5,632
60	Silver ores.....	153	2166	(NA)	4,627	6,919	4,256	9,055	6,017

See footnotes at end of end of table.

## United States: 1958 and Earlier Years

Industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. I)

Value added in mining  (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts  (\$1,000)	Value of net shipments and receipts  (\$1,000)	Quantity of primary products <sup>1</sup>  (1,000)	Capital expenditures  (\$1,000)	
	Supplies, purchases for resale, and purchased fuels and electricity	Minerals received for preparation	Contract work	Purchased machinery installed					
378,060	144,703	111,618	25,641	23,289	626,594	525,252	129,216	56,717	1
477,639	131,908	137,088	50,678	31,421	731,257	594,902	112,280	97,477	2
260,566	75,361	(NA)	2,165	(NA)	360,499	338,092	81,605	(NA)	3
151,929	54,072	(NA)	(NA)	(NA)	(NA)	206,001	(NA)	(NA)	4
322,000	98,079	(NA)	5,752	20,506	(NA)	425,831	(NA)	(NA)	5
219,401	95,787	6,602	3,248	(NA)	325,038	318,436	61,839	(NA)	6
162,587	72,781	18,996	5,739	(NA)	260,103	241,107	(NA)	(NA)	7
109,819	35,524	6,529	2,475	(NA)	154,347	148,260	(NA)	(NA)	8
103,075	17,993	(NA)	1,790	(NA)	(NA)	122,858	(NA)	(NA)	9
83,360	6,405	(NA)	(NA)	(NA)	(NA)	91,875	(NA)	(NA)	10
28,450	4,729	(NA)	(NA)	(NA)	(NA)	33,179	(NA)	(NA)	11
34,575	617,399	( <sup>6</sup> )	(NA)	(NA)	51,974	(NA)	(NA)	(NA)	12
266,485	105,807	89,011	22,024	19,191	457,644	374,428	111,957	44,874	13
334,876	87,676	100,693	43,873	23,821	508,729	409,911	90,992	82,210	14
108,494	32,629	(NA)	511	(NA)	145,590	141,634	52,118	(NA)	15
221,690	59,232	(NA)	2,595	13,084	(NA)	283,517	(NA)	(NA)	16
130,167	49,141	1,528	422	(NA)	181,258	179,730	(NA)	(NA)	17
86,078	37,285	10,597	657	(NA)	134,617	124,020	(NA)	(NA)	18
39,770	11,219	20	189	(NA)	51,198	51,178	11,780	(NA)	19
15,285	4,068	(NA)	334	(NA)	(NA)	19,687	3,323	(NA)	20
7,465	1,392	(NA)	(NA)	(NA)	(NA)	8,857	1,007	(NA)	21
4,614	587	(NA)	(NA)	(NA)	(NA)	5,201	(NA)	(NA)	22
2,854	6507	( <sup>6</sup> )	(NA)	(NA)	3,361	(NA)	(NA)	(NA)	23
73,679	28,112	21,517	2,952	2,920	120,561	103,843	14,405	8,619	24
48,023	16,985	11,353	2,108	1,630	75,603	68,144	8,761	4,496	25
25,656	11,127	10,164	844	1,290	44,958	35,699	5,644	4,123	26
107,409	32,920	35,116	6,080	5,942	175,947	140,132	18,526	11,520	27
62,713	17,417	14,197	2,829	2,878	94,874	77,201	9,698	5,160	28
44,696	15,503	20,919	3,251	3,064	81,073	62,931	8,828	6,360	29
47,310	14,978	(NA)	363	(NA)	72,648	62,651	16,318	(NA)	30
24,277	7,041	(NA)	149	(NA)	34,517	31,467	6,979	(NA)	31
23,033	7,937	(NA)	214	(NA)	38,131	31,184	9,339	(NA)	32
84,793	25,982	(NA)	1,653	3,752	(NA)	112,428	(NA)	(NA)	33
51,738	14,792	(NA)	1,032	1,904	(NA)	67,562	(NA)	(NA)	34
33,055	11,190	(NA)	621	1,848	(NA)	44,866	(NA)	(NA)	35
53,623	20,687	406	863	(NA)	75,579	75,173	(NA)	(NA)	36
21,855	7,300	1,947	261	(NA)	31,363	29,416	(NA)	(NA)	37
11,953	2,530	73	117	(NA)	14,673	14,600	(NA)	(NA)	38
4,361	408	(NA)	35	(NA)	(NA)	4,804	(NA)	(NA)	39
3,505	332	(NA)	(NA)	(NA)	(NA)	3,837	(NA)	(NA)	40
1,447	78	(NA)	(NA)	(NA)	(NA)	1,525	(NA)	(NA)	41
698	38	(NA)	(NA)	(NA)	(NA)	736	(NA)	(NA)	42
749	40	(NA)	(NA)	(NA)	(NA)	789	(NA)	(NA)	43
179	6231	( <sup>6</sup> )	(NA)	(NA)	410	(NA)	(NA)	(NA)	44
37,896	10,784	1,090	665	1,178	48,389	46,981	2,854	3,224	45
22,659	67,384	( <sup>6</sup> )	427	764	29,506	28,234	2,358	1,728	46
4,873	1,595	xxx	85	113	6,326	6,326	1180.8	340	47
10,364	62,895	( <sup>6</sup> )	153	301	12,557	12,421	496	1,156	48
35,354	11,312	1,279	725	1,658	46,581	44,859	2,762	3,747	49
21,884	6,306	1,274	320	910	28,517	26,892	2,248	2,177	50
3,614	2,463	xxx	41	302	5,916	5,916	1169.1	504	51
9,856	2,543	5	364	446	12,148	12,051	514	1,066	52
104,798	27,728	(NA)	1,281	(NA)	142,261	133,807	13,169	(NA)	53
66,523	18,521	(NA)	1,020	(NA)	92,942	86,064	11,343	(NA)	54
21,935	5,951	xxx	141	(NA)	28,027	28,027	1824.6	(NA)	55
16,340	3,256	(NA)	120	(NA)	21,292	19,716	1,826	(NA)	56



Table 1.—General Statistics for the

	Industry code, industry or subindustry, and year	Operating companies, number	Establishment, number		All employees		Production and development workers		
			Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)
	104—GOLD AND SILVER ORES—Continued								
1	1929, total <sup>7</sup> .....	(NA)	273	(NA)	39,277	315,951	8,524	(NA)	13,953
2	Lode gold.....	(NA)	174	(NA)	35,796	39,787	5,353	(NA)	8,656
3	Placer gold.....	(NA)	32	(NA)	3,668	31,230	578	(NA)	976
4	Silver ores.....	(NA)	67	(NA)	32,813	34,934	2,593	(NA)	4,327
5	1919, total <sup>7</sup> .....	(NA)	852	(NA)	18,348	29,175	16,816	(NA)	25,732
6	Lode gold and silver ores.....	(NA)	740	(NA)	16,819	26,824	15,436	(NA)	23,818
7	Placer gold.....	(NA)	112	(NA)	1,529	2,351	1,380	(NA)	1,914
8	1909 total <sup>4</sup> .....	5,492	5,504	(NA)	46,551	50,054	42,395	(NA)	43,868
9	Lode gold and silver ores <sup>9</sup> .....	4,682	4,694	(NA)	42,827	46,659	39,009	(NA)	40,955
10	Placer gold.....	810	810	(NA)	3,724	3,395	3,386	(NA)	2,913
11	1902, total.....	6,244	26,244	(NA)	53,669	55,070	547,905	(NA)	47,658
12	Lode gold and silver ores <sup>9</sup> 13.....	5,269	25,269	(NA)	51,073	52,927	545,584	(NA)	45,839
13	Placer gold <sup>13</sup> .....	975	2,975	(NA)	2,596	2,143	52,321	(NA)	1,819
14	1889.....	(NA)	24,738	(NA)	56,917	41,444	53,136	(NA)	37,422
15	1880, total <sup>4</sup> .....	(NA)	22,989	(NA)	20,225	12,888	18,858	(NA)	(NA)
16	Lode gold and silver ores.....	(NA)	22,640	(NA)	17,147	17,261	17,780	51,966	(NA)
17	Placer gold.....	(NA)	2,349	(NA)	1,078	627	1,078	(NA)	627
18	1870, total <sup>4</sup> .....	(NA)	2,377	(NA)	16,908	8,797	(NA)	(NA)	(NA)
19	Lode gold <sup>18</sup> .....	(NA)	281	(NA)	5,411	4,576	(NA)	(NA)	(NA)
20	Placer gold <sup>18</sup> .....	(NA)	1,994	(NA)	10,441	3,379	(NA)	(NA)	(NA)
21	Silver ores.....	(NA)	102	(NA)	1,056	842	(NA)	(NA)	(NA)
22	1860, total <sup>4</sup> .....	(NA)	7,208	(NA)	44,575	23,714	(NA)	(NA)	(NA)
23	Lode and placer gold <sup>18</sup> .....	(NA)	7,202	(NA)	44,316	23,662	(NA)	(NA)	(NA)
24	Silver ores.....	(NA)	6	(NA)	259	52	(NA)	(NA)	(NA)

NA Not available.

<sup>1</sup>Represents short tons of crude ore mined, except for the Placer Gold Industry for which it represents fine ounces of placer gold shipped. For groups of industries, excludes figures for placer gold.<sup>2</sup>Represents number of mines.<sup>3</sup>Excludes data for central administrative offices operated separately from mines or plants.<sup>4</sup>Includes some smelting and refining operations. For 1909, production and development workers at copper smelters represented about 13 percent of the total shown for such workers in the Copper Ores Industry, and production and development workers at lead and zinc smelters and refineries represented about 3 percent of the total shown for such workers in the Lead and Zinc Ores Industry.<sup>5</sup>Figures for average employment were reduced to a 300-day basis for establishments which operated for a shorter period.<sup>6</sup>The cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.<sup>7</sup>Excludes some nonproducing operations for which statistics are available only for the copper, lead, zinc, gold and silver ores industries as a group. For 1939, 9 such nonproducing operations with 46 employees and with wages, salaries, and selected expenses of \$92 thousand were reported. For 1929, 783 such establishments were reported with wages, salaries, and selected expenses of \$13,128 thousand; and for 1919 there were 500 such establishments with such expenses of \$13,055 thousand.<sup>8</sup>Represents statistics for Michigan, Montana, New Mexico, and Arizona only. Over 90 percent of the copper contained in copper ores was produced in these States.

## United States: 1958 and Earlier Years --Continued

Value added in mining  (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts  (\$1,000)	Value of net shipments and receipts  (\$1,000)	Quantity of primary product <sup>1</sup>  (1,000)	Capital expenditures  (\$1,000)	
	Supplies, purchased for resale, and purchased fuels and electricity	Minerals received for preparation	Contract work	Purchased machinery installed					
20,186	9,004	(NA)	696	1,868	(NA)	29,886	(NA)	(NA)	1
11,713	5,381	(NA)	556	1,085	(NA)	17,650	(NA)	(NA)	2
2,582	1,195	xxx	2	359	3,779	3,779	(NA)	(NA)	3
5,891	2,428	(NA)	138	424	(NA)	8,457	(NA)	(NA)	4
41,774	20,389	4,668	1,370	(NA)	68,201	63,533	(NA)	(NA)	5
35,927	17,000	4,668	1,237	(NA)	58,832	54,164	(NA)	(NA)	6
5,847	3,389	xxx	133	(NA)	9,369	9,369	1464.0	(NA)	7
54,654	28,196	6,452	4,821	(NA)	94,123	87,671	(NA)	(NA)	8
47,566	25,174	6,452	4,694	(NA)	83,886	77,434	(NA)	(NA)	9
7,088	3,022	xxx	127	(NA)	10,237	10,237	(NA)	(NA)	10
58,096	21,775	6,436	2,169	(NA)	88,476	82,482	9,788	(NA)	11
53,579	20,984	6,436	2,149	(NA)	83,148	77,154	149,788	(NA)	12
4,517	791	xxx	20	(NA)	5,328	5,328	1259.1	(NA)	13
83,429	13,517	(NA)	1,421	(NA)	(NA)	98,367	4,360	(NA)	14
1572,390	164,681	(NA)	(NA)	(NA)	(NA)	79,181	2,216	(NA)	15
62,390	4,681	(NA)	(NA)	(NA)	(NA)	67,071	2,216	(NA)	16
(NA)	(NA)	xxx	(NA)	(NA)	12,110	12,110	1586.8	(NA)	17
22,389	4,064	(NA)	(NA)	(NA)	(NA)	26,453	(NA)	(NA)	18
11,713	1,716	(NA)	(NA)	(NA)	(NA)	13,429	(NA)	(NA)	19
7,917	1,858	xxx	(NA)	(NA)	(NA)	9,775	(NA)	(NA)	20
2,759	490	(NA)	(NA)	(NA)	(NA)	3,249	(NA)	(NA)	21
31,542	616,661	(6)	(NA)	(NA)	48,203	(NA)	(NA)	(NA)	22
30,601	616,562	(6)	(NA)	(NA)	47,163	(NA)	(NA)	(NA)	23
941	699	(6)	(NA)	(NA)	1,040	(NA)	(NA)	(NA)	24

<sup>9</sup>Data for establishments primarily producing argentiferous lead and zinc ores are included with those for gold and silver ores.

<sup>10</sup>Represents New Jersey, Pennsylvania, Illinois, Wisconsin, Iowa, Missouri, Kansas, Virginia, Tennessee, Arkansas, and New Mexico. Except for value of shipments, excludes lead mining in Illinois, Virginia, Tennessee, and Arkansas (products valued at \$2,033 thousand) and zinc mining in Iowa, Missouri, Arkansas, and New Mexico (products valued at \$2,033 thousand).

<sup>11</sup>Represents mines east of the 100th meridian only.

<sup>12</sup>Represents the sum of the figures shown for the separate industries and probably includes some duplication due to the same company operating in more than one industry.

<sup>13</sup>Only combined figures are available for all of the 3,252 nonproducing gold mines reported for 1902. Data for all of these mines are included with the figures for producing lode gold and silver ores operations.

<sup>14</sup>Represents ore sold or treated, including milling ores, but excluding the production of "certain small operators, from whom no individual reports were received."

<sup>15</sup>Includes an estimate of \$10,000 thousand for value added in mining at placer gold establishments.

<sup>16</sup>Excludes data for placer gold establishments.

<sup>17</sup>Figures for number of employees include, but figures for wages and salaries exclude, data for 732 employees reported as "staff." Many of these persons may have been proprietors.

<sup>18</sup>Figures for 1870 are probably understated and those for 1860 are probably overstated. For 1870, no estimates were made for missing reports. For 1860, estimates were made for about 5,000 apparently missing reports and the figures also include data for refineries and assay establishments.



# GOLD AND SILVER ORES

Distribution of Employment by State:1958



## Employment and Crude Ore Mined:1840-1958

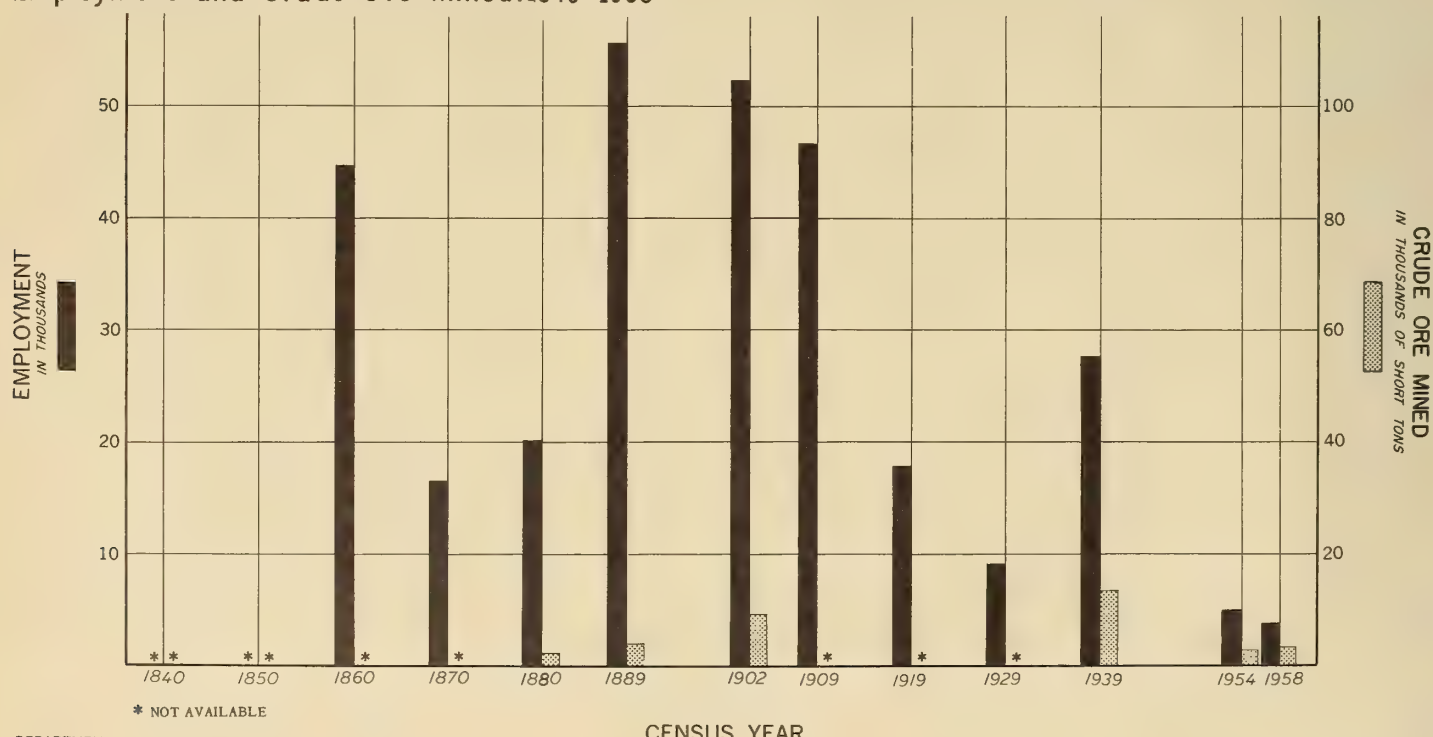


Table 2.—General Statistics by Regions, States, Alaska, and Type of Operation: 1958 and 1954

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries by State see table 2 of the corresponding chapter of 1954 Census of Mineral Industries, Vol. I)

Ind. code	Industry, region, State, <sup>1</sup> and type of operation	1958											1954		
		Establish- ments, number		All employees-		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of ship- ments and receipts	Quan- tity of primary prod- ucts <sup>2</sup>	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more em- ploy- ees	Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)							
1021	COPPER ORES														
	United States, total....	143	38	27,642	143,501	20,898	41,021	106,357	266,485	236,033	457,644	111,957	44,874	27,813	334,876
	State														
	Montana.....	8	3	3,685	17,006	2,456	4,177	10,488	20,413	34,634	52,508	10,107	2,539	( <sup>3</sup> )	( <sup>3</sup> )
	Arizona.....	56	17	13,072	70,509	10,158	20,694	53,592	165,569	72,408	211,936	56,525	26,041	11,492	165,668
	Other States.....	84	18	10,885	55,986	8,284	16,150	42,277	80,503	128,991	193,200	45,325	16,294	<sup>3</sup> 16,321	<sup>3</sup> 169,208
	Type of Operation														
	Producing establishments, total	85	34	27,304	141,869	20,643	40,587	105,176	267,560	222,759	457,644	111,957	32,675	<sup>4</sup> 25,293	334,001
	Underground mines:														
	Without mills.....	31	5	2,067	10,175	1,616	3,237	7,787	15,881	5,065	20,488	2,268	458	} 7,140	} 54,128
	With mills.....	11	7	6,255	33,546	4,981	10,150	27,016	47,381	26,885	64,772	18,344	9,494		
	Open-pit mines, combi- nation open-pit and underground mines, and mills only.....	43	22	18,982	98,148	14,046	27,200	70,373	204,298	190,809	372,384	91,345	22,723	18,153	279,873
	Nonproducing establish- ments.....	63	4	338	1,632	255	434	1,181	( <sup>5</sup> )	13,274	...	...	12,199	<sup>4</sup> 793	875
1031	LEAD AND ZINC ORES														
	United States, total....	288	52	11,227	54,397	8,728	16,734	39,001	73,679	55,501	120,561	14,405	8,619	16,566	107,409
	Lead ores subin- dustry.....	211	26	6,883	33,759	5,460	10,397	24,843	48,023	32,076	75,603	8,761	4,496	8,720	62,713
	Zinc ores subindustry.	77	26	4,344	20,638	3,268	6,337	14,158	25,656	23,425	44,958	5,644	4,123	7,846	44,696
	Region and State														
	Northeast and North														
	Central.....	43	13	4,026	18,345	3,159	5,875	13,400	23,565	13,676	33,859	7,947	3,382	5,680	36,830
	Missouri.....	8	4	2,852	12,256	2,307	4,208	9,566	17,725	8,031	23,381	5,929	2,375	3,451	22,708
	South.....	36	9	1,624	7,010	1,127	2,171	4,348	8,029	7,942	13,663	2,673	2,308	2,376	10,908
	West, total.....	209	30	5,577	29,042	4,442	8,688	21,253	42,085	33,883	73,039	3,785	2,929	8,510	59,671
	Lead ores subindustry.	179	22	3,844	20,507	3,077	6,028	14,965	29,979	23,558	51,479	2,576	2,058	5,128	38,669
	Zinc ores subindustry.	30	8	1,733	8,535	1,365	2,660	6,288	12,106	10,325	21,560	1,209	871	3,382	21,002
	Montana.....	25	3	596	3,594	406	890	2,266	4,191	7,072	10,505	322	758	1,918	9,501
	Idaho.....	42	8	1,946	10,243	1,578	2,846	7,384	11,701	6,785	17,638	873	848	2,522	18,162
	Arizona.....	22	4	416	2,264	355	763	1,880	4,077	2,334	6,241	384	170	(NA)	(NA)
	Utah.....	29	6	1,145	6,167	899	1,872	4,515	9,557	11,580	20,630	522	507	1,686	13,512
	Type of Operation														
	Producing establishments, total.....	171	48	<sup>4</sup> 10,395	<sup>4</sup> 49,686	8,434	16,307	38,053	74,907	53,262	120,561	14,405	7,608	<sup>4</sup> 15,493	107,293
	Open-pit and combina- tion open-pit and underground mines.....	19	2	189	732	141	251	567	757	692	1,355	288	94	342	2,682
	Underground mines:														
	Without mills.....	102	12	2,108	11,262	1,749	3,674	8,929	17,128	6,438	21,893	2,891	1,673	4,355	30,815
	With mills.....	41	28	7,729	35,788	6,284	11,823	27,359	52,928	25,854	73,435	11,226	5,347	10,116	69,045
	Open-stopping:														
	Without mills.....	73	5	624	2,875	546	1,065	2,440	5,205	2,939	7,339	1,986	805	} 7,028	} 46,466
	With mills.....	20	14	4,655	20,471	3,746	6,992	15,525	29,067	15,714	40,587	9,402	4,194		
	Shrinkage stopping.....	10	5	614	2,965	483	1,006	2,297	6,958	1,957	8,404	488	511	1,301	11,078
	Square setting.....	11	8	2,383	11,776	1,992	3,806	9,092	14,571	5,361	19,429	1,147	503	3,209	19,216
	Cut-and-fill stopping:														
	Without mills.....	8	4	819	5,070	623	1,398	3,698	7,300	1,880	8,579	517	601	} 1,895	} 15,501
	With mills.....	7	4	717	3,789	620	1,190	3,147	6,709	4,251	10,759	567	201		
	Other.....	14	...	25	104	23	40	89	246	190	231	10	205	1,038	7,599
	Mills only.....	9	6	369	1,904	260	559	1,198	4,094	20,278	23,878	xxx	494	680	4,751
	Nonproducing establish- ments.....	117	4	<sup>4</sup> 420	<sup>4</sup> 1,585	294	427	948	( <sup>5</sup> )	2,239	...	...	1,011	<sup>4</sup> 352	( <sup>5</sup> )

See footnotes at end of table.



Table 2.—General Statistics by Regions, States, Alaska, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region, State, and type of operation	1958												1954	
		Establish- ments, number		All employees		Production and development work			Value added, in thousands	Cost of supplies, materials, purchased machinery installed	Value of sales, disposals, and receipts	Quan- tity of primary products, in thousands	Capital expendi- tures	Assets, in thousands	Value added, in thousands
		Total	With 10 or more em- ploy- ees	Number	Payroll (\$1,000)	Number	Man- hour	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(1,000)	(\$1,000)		(\$1,000)
1042	<u>Type of Operation—Con.</u>														
	Lead ores subindustry:														
	Producing establish- ments.....	115	24	46,392	430,998	5,257	10,108	24,186	49,153	30,560	75,603	8,761	4,110	48,195	62,516
	Underground mines:														
	With mills.....	24	16	4,971	23,686	4,053	7,630	18,235	36,549	16,866	50,289	7,689	3,126	(NA)	(NA)
	Open-stopping.....	58	6	3,153	13,780	2,568	4,711	10,763	20,475	9,667	27,455	6,650	2,687	3,963	27,509
	Nonproducing estab- lishments.....	96	2	4278	41,062	203	289	657	( <sup>5</sup> )	1,516	...	...	386	4113	19
	Zinc ores subindustry:														
	Producing establish- ments.....	56	24	44,003	418,688	3,177	6,199	13,867	25,754	22,702	44,958	5,644	3,498	47,298	44,777
	Underground mines:														
	With mills.....	17	12	2,758	12,102	2,231	4,193	9,124	16,379	8,988	23,146	3,537	2,221	(NA)	(NA)
	Open-stopping.....	35	13	2,126	9,566	1,724	3,346	7,202	13,797	8,986	20,471	4,738	2,312	3,065	18,957
	Nonproducing estab- lishments.....	21	2	4142	4523	91	138	291	( <sup>5</sup> )	723	...	...	625	4159	( <sup>5</sup> )
1043	LODE GOLD														
	United States, total....	244	12	2,586	12,447	2,234	4,602	10,709	22,659	8,575	29,506	2,358	1,728	3,020	21,884
	<u>Division and State</u>														
	Pacific.....	91	6	321	1,514	276	565	1,292	4,721	1,484	5,692	243	513	719	3,675
	South Dakota.....	4	2	1,850	9,408	1,590	3,285	8,060	15,803	4,571	20,062	1,824	312	1,771	15,439
	Colorado.....	41	3	197	724	176	370	650	1,417	1,714	2,889	105	242	( <sup>6</sup> )	( <sup>6</sup> )
	Other States.....	108	1	218	801	192	382	707	718	806	863	186	661	6530	62,770
	<u>Type of Operation</u>														
	Producing establishments, total.....	104	12	2,330	11,663	2,006	4,220	10,017	22,589	7,707	29,506	2,358	790	2,823	21,699
	Open-pit mines, com- bination open-pit and underground mines, and mills.....	32	4	220	788	198	428	689	1,020	2,035	2,945	332	110	184	1,332
	Underground mines:														
	Without mills.....	51	3	154	688	138	287	634	2,058	516	2,392	174	182	260	1,898
	Open-stopping.....	35	1	52	297	45	87	262	849	273	1,030	76	92	(NA)	(NA)
	With mills.....	21	5	1,956	10,187	1,670	3,505	8,694	19,511	5,156	24,169	1,852	498	2,379	18,469
	Open-stopping.....	11	2	76	341	64	139	272	481	148	619	37	10	(NA)	(NA)
	Shrinkage stopping....	7	3	124	508	108	244	462	1,028	307	1,275	69	60	347	1,775
	Mills with or without mines, by principal milling method (in- cluded above):														
	Flotation.....	6	2	119	683	102	238	577	3,496	537	3,920	89	113	188	1,552
	Amalgamation, cyanida- tion, or other.....	27	7	2,057	10,292	1,766	3,695	8,806	16,949	6,641	23,156	2,093	434	2,364	18,151
1043	Nonproducing establish- ments.....	140	...	256	784	228	382	692	70	868	...	...	938	197	185
	PLACER GOLD														
	United States and Alaska, total.....	165	6	840	5,013	753	1,882	4,204	9,123	4,433	12,628	362.1	928	1,320	10,306
	United States.....	74	3	364	1,790	323	723	1,515	4,873	1,793	6,326	180.8	340	556	3,614
	Alaska.....	91	3	476	3,223	430	1,159	2,689	4,250	2,640	6,302	181.3	588	764	6,692
	<u>Type of Operation</u>														
	Producing establishments..	46	3	318	1,692	283	668	1,432	4,814	1,600	6,326	180.8	88	514	3,517
	Nonproducing establish- ments.....	28	...	46	98	40	55	83	59	193	...	...	252	42	97

See footnotes at end of table.

Table 2.—General Statistics by Regions, States, Alaska, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region, State, <sup>1</sup> and type of operation	1958												1954	
		Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of ship- ments and receipts	Quan- tity of primary prod- ucts; <sup>2</sup>	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more em- ploy- ees	Number	Payroll  (\$1,000)	Number	Man- hours  (1,000)	Wages  (\$1,000)							
1044	SILVER ORES														
	United States, total.....	61	5	989	5,757	854	1,746	4,840	10,364	3,349	12,557	496	1,156	1,255	9,856
	State														
	Idaho.....	14	5	878	5,094	793	1,634	4,529	9,588	3,032	11,915	440	705	1,060	8,816
	Other States.....	47	...	111	663	61	112	311	776	317	642	56	451	195	1,040
	Type of Operation														
	Producing establish- ments, total.....	42	4	928	5,425	803	1,640	4,556	10,403	2,712	12,557	496	558	1,094	9,724
	Mines only.....	35	...	44	276	31	59	192	755	229	650	48	334	91	607
	Mines with mills.....	7	4	884	5,149	772	1,581	4,364	9,648	2,483	11,907	448	224	1,003	9,117
	Nonproducing establish- ments.....	19	1	61	332	51	106	284	( <sup>5</sup> )	637	...	...	598	483	132

NA Not available.

<sup>1</sup>General statistics for some States are not shown separately in this table in order to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such States are shown below for 1958, with the number of establishments in each State (and in parentheses the number of employees or employment-size range):

SIC 1021, Copper Ores: Maine, 2 (5-9); Vermont, 1 (5-9); New York (500-999, separately reported central offices only); New Jersey (0-4, separately reported central offices only); Michigan, 6 (1,000-2,499); Minnesota (5-9, separately reported central offices only); Missouri, 1 (5-9); Nebraska, 1 (0-4); Virginia, 2 (0-4); North Carolina, 1 (100-249); Texas, 1 (0-4); Idaho, 8 (8); Wyoming, 1 (0-4); Colorado, 4 (20-49); New Mexico, 11 (1,416); Utah, 11 (2,500 and over); Nevada, 16 (1,456); Washington, 4 (16); Oregon, 4 (15); and California, 10 (84). In addition, 9 establishments with a total of 6 employees were reported in Alaska.

SIC 1031, Lead and Zinc Ores: New York, 2 (250-499); New Jersey, 1 (100-249); Pennsylvania, 1 (100-249); Ohio, 1 (5-9); Illinois, 5 (100-249); Wisconsin, 8 (173); North Dakota, 1 (0-4); Kansas, 16 (50-99); Virginia, 3 (250-499); Tennessee, 7 (844); Arkansas, 1 (10-19); Oklahoma, 24 (257); Texas, 1 (50-99); Colorado, 37 (970); New Mexico, 15 (154); Nevada, 18 (59); Washington, 12 (274); and California, 9 (17). In addition, 2 establishments were reported in Alaska, with employment range 0-4.

SIC 1042, Lode Gold: North Dakota, 1 (10-19); Nebraska, 1 (0-4); North Carolina, 1 (5-9); Oklahoma, 1 (0-4); Montana, 29 (49); Idaho, 17 (25); Wyoming, 1 (0-4); New Mexico, 2 (0-4); Arizona, 9 (10); Utah, 11 (18); Nevada, 35 (93); Washington, 10 (103); Oregon, 12 (16); and California, 69 (202). In addition, 7 establishments were reported in Alaska, with total employment in the range 0-4.

SIC 1043, Placer Gold: Texas, 1 (0-4); Montana, 5 (6); Idaho, 13 (4); Colorado, 7 (4); Arizona, 1 (0); Utah, 1 (0-4); Nevada, 5 (80); Washington, 1 (0-4); Oregon, 12 (9); and California, 28 (257).

SIC 1044, Silver Ores: Montana, 8 (904); Colorado, 11 (28); Arizona, 1 (0-4); Utah, 9 (24); Nevada, 14 (22); Washington, 2 (20-49); and California, 2 (0-4).

<sup>2</sup>Represents short tons of crude ore mined; except for the placer Gold Industry for which it represents fine ounces of placer gold shipped.

<sup>3</sup>Figures for Montana are combined with those for other States.

<sup>4</sup>Exclude employees at separately reported central offices and related facilities.

<sup>5</sup>Not shown since the cost of supplies, minerals received for preparation, fuels, purchased electricity, contract work, and purchased machinery installed exceeded capital expenditures.

<sup>6</sup>Figures for Colorado are combined with those for other States.



Table 3.—Detailed Statistics for the Copper, Lead and Zinc, Gold, and Silver Ores Industries, by Regions and States and by Selected Types of Operation: 1958

Item	1021—Copper ores industry						1031—Lead and zinc ores industry		
	United States, total	Montana	Arizona	Other States	Producing underground mines		United States		
					Without mills	With mills	All operations, total	Lead ores sub-industry	Zinc ores sub-industry
Number of establishments, total.....	148	8	56	84	31	11	288	211	77
With 0-19 employees.....	110	5	39	66	26	4	236	185	51
With 20-99 employees.....	9	1	3	5	3	...	28	14	14
With 100 employees and over.....	29	2	14	13	2	7	24	12	12
Including mines.....	140	7	56	77	31	11	275	204	71
Including mills.....	36	2	16	18	...	11	69	42	27
Crude ore mined.....1,000 short tons..	111,957	10,107	56,525	45,325	2,268	18,344	14,405	8,761	5,644
Value of shipments and receipts.....\$1,000..	457,644	52,508	211,936	193,200	20,488	64,772	120,561	75,603	44,958
Minerals transferred to other establishments for preparation, and resale.....do....	83,216	52,508	211,936	60,326	9,472	...	16,718	7,459	9,259
Net shipments and receipts, total.....do....	374,428			132,874	11,016	64,772	103,843	68,144	35,699
Primary products.....do....	357,244			118,991	10,998	62,741	99,702	54,094	28,531
Other products and services.....do....	17,184			13,883	18	2,031	4,141	14,050	7,168
Value added in mining.....do....	266,485	20,413	165,569	80,503	15,881	47,381	73,679	48,023	25,656
Number of persons engaged, total.....	27,746	3,690	13,111	10,945	2,099	6,256	31,439	7,057	4,382
Production and development workers, average for year.....	20,898	2,456	10,158	8,284	1,616	4,981	8,728	5,460	3,268
March.....	21,202	2,367	10,415	8,420	1,673	5,107	9,637	5,841	3,796
May.....	20,663	2,600	10,071	7,992	1,624	4,922	9,307	5,684	3,623
August.....	20,067	2,277	10,007	7,783	1,588	4,923	7,814	5,098	2,716
November.....	21,661	2,580	10,144	8,937	1,575	4,967	8,109	5,175	2,934
All other employees.....	6,744	1,229	2,914	2,601	451	1,274	32,499	1,423	1,076
Proprietors and firm members.....	104	5	39	60	32	1	212	174	38
Performing manual labor.....	69	4	30	35	26	...	141	108	33
Man-hours worked by production and development workers, total.....1,000..	41,021	4,177	20,694	16,150	3,237	10,150	16,734	10,397	6,337
At mines, total.....do....	29,256	3,027	15,371	10,858	3,237	8,290	14,691	9,288	5,403
Underground.....do....	10,438	1,541	5,949	2,948	2,304	6,407	11,118	7,048	4,070
Open-pit.....do....	10,691	629	4,511	5,551	...	...	22	17	5
Surface (including mine shops and yards).....do....	8,127	857	4,911	2,359	933	1,883	3,551	2,223	1,328
At mills.....do....	11,765	1,150	5,323	5,292	...	1,860	2,043	1,109	934
Man-hours spent on development and exploration work (included above).....do....	1,672	5	1,173	494	296	912	1,491	1,141	350
Principal expenses designated below, total.....\$1,000..	360,343	50,372	138,621	171,350	15,175	59,322	106,978	64,205	42,773
Wages of production and development workers.....do....	106,357	10,488	53,592	42,277	7,787	27,016	39,001	24,843	14,158
Salaries of all other employees.....do....	37,144	6,518	16,917	13,709	2,388	6,530	35,396	8,916	6,480
Supplies and purchases for resale.....do....	86,587	8,100	44,087	100,558	4,024	19,567	21,185	12,996	8,189
Minerals received for preparation.....do....	89,011	22,853			...	...	21,517	11,353	10,164
Purchased fuel.....do....	9,744	398			325	1,927	1,058	609	449
Purchased electricity.....do....	9,476	1,482			597	2,905	5,869	3,380	2,489
Contract work.....do....	22,024	533	14,469	7,022	54	1,377	2,952	2,108	844
Purchased machinery installed.....do....	19,191	1,268	4,296	13,627	65	1,109	2,920	1,630	1,290
Capital expenditures, total.....do....	44,874	2,539	26,041	16,294	458	9,494	8,619	4,496	4,123
Development and exploration of mineral property.....do....	9,720	...	8,936	784	320	7,205	4,160	2,295	1,865
Mill construction and other construction.....do....	14,835	1,025	12,945	865	37	124	1,845	1,002	843
New machinery and equipment.....do....	16,534	1,514	3,701	11,319	64	1,776	2,502	1,113	1,389
Used plant and equipment.....do....	3,785	...	459	3,326	37	389	112	86	26
Energy used.....million kwh equivalent..	10,239	748	4,168	5,323	371	1,926	1,153	659	494
Coal.....1,000 short tons..	188	...	1	187	(D)	(D)	17	9	8
Fuel oil.....1,000 barrels..	279	(6)	133	146	48	56	67	27	40
Gas.....million cu. ft..	21,356	1,447	9,242	10,667	(D)	(D)	453	269	184
Other fuels and undistributed.....\$1,000..	1,214	18	944	252	41	112	372	263	109
Electric energy purchased.....million kwh..	1,444	298	853	293	70	324	676	395	281
Electric energy generated and used.....do....	1,196	...	554	642	(D)	258	23	21	2

See footnotes at end of table.

Table 3.—Detailed Statistics for the Copper, Lead and Zinc, Gold, and Silver Ores Industries, by Regions and States and by Selected Types of Operation: 1958—Continued

Item	1958—Lead and zinc ores industry—Continued									
	North-east and North Central	Missouri	South	West						
				Region, total	Lead ores sub-industry	Zinc ores sub-industry	Montana	Idaho	Arizona	Utah
Number of establishments, total.....	43	8	36	209	179	30	25	42	22	29
With 0-19 employees.....	30	4	27	179	157	22	22	34	18	23
With 20-99 employees.....	5	...	5	19	14	5	2	5	3	3
With 100 employees and over.....	8	4	4	11	8	3	1	3	1	3
Including mines.....	39	8	35	201	174	27	24	42	21	27
Including mills.....	15	4	10	44	33	11	3	15	5	2
Crude ore mined.....1,000 short tons..	7,947	5,929	2,673	3,785	2,576	1,209	322	873	384	522
Value of shipments and receipts.....\$1,000..	33,859	23,381	13,663	73,039	51,479	21,560	10,505	17,638	6,241	20,630
Minerals transferred to other establishments for preparation, and resales.....do....	2,284	23,381	2,021	12,413	6,759	5,654	3,827	2,012	6,241	20,630
Net shipments and receipts, total.....do....	31,575		11,642	60,626	44,720	15,906	6,678	15,626		
Primary products.....do....	(D)		(D)	56,699	31,012	11,152	6,671	15,607		
Other products and services <sup>2</sup> .....do....	(D)		(D)	3,927	13,708	4,754	7	19		
Value added in mining.....do....	23,565	17,725	8,029	42,085	29,979	12,106	4,191	11,701	4,077	9,557
Number of persons engaged, total.....	4,042	2,857	1,642	5,755	4,001	1,754	613	1,973	432	1,169
Production and development workers, average for year.....	3,159	2,307	1,127	4,442	3,077	1,365	406	1,578	355	899
March.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
May.....										
August.....										
November.....										
All other employees.....	867	545	497	1,135	767	368	190	368	61	246
Proprietors and firm members.....	16	5	18	178	157	21	17	27	16	24
Performing manual labor.....	11	1	6	124	107	17	15	26	8	16
Man-hours worked by production and development workers, total.....1,000..	5,875	4,208	2,171	8,688	6,028	2,660	890	2,846	763	1,872
At mines, total.....do....	5,098	3,640	1,776	7,817	5,453	2,364	765	2,690	649	1,872
Underground.....do....	3,624	2,607	1,376	6,118	4,312	1,806	500	2,004	490	1,503
Open-pit <sup>5</sup> .....do....	3	...	1	18	13	5	6	...	...	(D)
Surface (including mine shops and yards) <sup>5</sup> .....do....	1,471	1,033	399	1,681	1,128	553	259	686	159	(D)
At mills <sup>5</sup> .....do....	777	568	395	871	575	296	125	156	114	( <sup>4</sup> )
Man-hours spent on development and exploration work (included above).....do....	594	471	216	681	650	31	10	294	89	70
Principal expenses designated below, total.....\$1,000..	31,075	19,456	14,245	61,658	43,301	18,357	10,320	16,830	4,555	17,608
Wages of production and development workers.....do....	13,400	9,566	4,348	21,253	14,965	6,288	2,266	7,384	1,880	4,515
Salaries of all other employees.....do....	4,945	2,690	2,662	7,789	5,542	2,247	1,328	2,859	384	1,652
Supplies and purchases for resale.....do....	8,367	4,152	5,759	28,576	19,818	8,758	6,302	5,849	1,538	10,607
Minerals received for preparation.....do....										
Purchased fuel.....do....										
Purchased electricity.....do....										
Contract work.....do....	1,141	1,075	579	1,232	1,018	214	79	77	493	201
Purchased machinery installed.....do....	946	831	707	1,267	764	503	346	198	43	139
Capital expenditures, total.....do....	3,382	2,375	2,308	2,929	2,058	871	758	848	170	507
Development and exploration of mineral property.....do....	1,760	1,243	1,330	1,070	1,037	33	19	587	34	176
Mill construction and other construction.....do....	888	635	417	540	358	182	113	13	83	184
New machinery and equipment.....do....	734	497	561	1,242	587	655	620	237	47	110
Used plant and equipment.....do....										
Energy used.....million kwh equivalent..	458	296	139	557	397	160	106	136	28	128
Coal.....1,000 short tons..	3	( <sup>6</sup> )	2	12	9	3	( <sup>6</sup> )	3	...	6
Fuel oil.....1,000 barrels..	28	9	11	28	16	12	( <sup>6</sup> )	4	1	1
Gas.....million cu. ft..	189	184	21	243	82	161	161	14	11	57
Other fuels and undistributed <sup>7</sup> .....\$1,000..	60	44	40	272	226	46	10	70	18	26
Electric energy purchased.....million kwh..	314	212	88	274	219	55	54	84	18	56
Electric energy generated and used.....do....	...	...	...	23	21	2	...	1	( <sup>6</sup> )	( <sup>6</sup> )

See footnotes at end of table.



Table 3.—Detailed Statistics for the Copper, Lead and Zinc, Gold, and Silver Ores Industries, by Regions and States and by Selected Types of Operation: 1958—Continued

Item	1931—Lead and zinc ores industry—Continued								
	Producing establishments:								Producing establishments
	Underground mines, by type of mining								
	Without mills			With mills			With and without mills		
	All establishments	Open-stopping	Cut-and-fill stoping	All establishments	Open-stopping	Cut-and-fill stoping	Shrinkage stoping	Square setting	
Number of establishments, total.....	102	73	8	41	20	7	10	11	9
With 0-19 employees.....	90	68	4	13	6	3	5	3	3
With 20-99 employees.....	7	4	1	11	4	2	3	4	6
With 100 employees and over.....	5	1	3	17	10	2	2	4	...
Including mines.....	102	73	8	41	20	7	10	11	...
Including mills.....	...	...	...	41	20	7	7	6	9
Crude ore mined.....1,000 short tons..	2,891	1,986	517	11,226	9,402	567	488	1,147	xxx
Value of shipments and receipts.....\$1,000..	21,893	7,339	8,579	73,435	40,587	10,759	8,404	19,429	23,878
Minerals transferred to other establishments for preparation, and resales.....do....	21,893	7,339	{ 5,563 3,016 }	73,435	40,587	{ ... 10,759 }	276 8,128	5,369 14,060	...
Net shipments and receipts, total....do....									
Primary products.....do....									
Other products and services <sup>2</sup> .....do....									
Value added in mining.....do....	17,128	5,205	7,300	52,928	29,067	6,709	6,958	14,571	4,094
Number of persons engaged, total.....	2,203	688	826	7,742	4,661	720	623	2,387	372
Production and development workers, average for year.....	1,749	546	623	6,284	3,746	620	483	1,992	260
March.....	2,063	663	726	6,733	4,018	624	598	2,151	306
May.....	1,907	642	695	6,542	3,919	613	530	2,027	315
August.....	1,335	458	323	5,929	3,518	615	463	1,855	193
November.....	1,675	401	749	5,916	3,524	624	346	1,923	223
All other employees.....	359	78	196	1,445	909	97	131	391	109
Proprietors and firm members.....	95	64	7	13	6	3	9	4	3
Performing manual labor.....	64	39	7	10	4	3	8	2	1
Man-hours worked by production and development workers, total.....1,000..	3,674	1,065	1,398	11,823	6,992	1,190	1,006	3,806	559
At mines, total.....do....	3,674	1,065	1,398	10,382	5,944	1,053	891	3,665	...
Underground.....do....	3,042	923	1,080	7,812	4,435	850	610	2,922	...
Open-pit <sup>3</sup> .....do....	...	...	...	...	...	...	...	...	...
Surface (including mine shops and yards) <sup>5</sup> .....do....	632	142	318	2,570	1,509	203	281	743	...
At mills <sup>5</sup> .....do....	...	...	...	1,441	1,048	137	115	141	559
Man-hours spent on development and exploration work (included above).....do....	190	128	31	976	525	93	212	147	...
Principal expenses designated below, total.....\$1,000..	17,117	5,612	6,617	59,979	34,873	8,005	4,834	16,868	22,022
Wages of production and development workers.....do....	8,929	2,440	3,698	27,359	15,525	3,147	2,297	9,092	1,198
Salaries of all other employees.....do....	2,333	435	1,372	8,429	4,946	642	668	2,684	706
Supplies and purchases for resale.....do....	4,254	2,164	1,071	17,787	9,386	3,838	1,456	{ 4,010	2,637
Minerals received for preparation.....do....									
Purchased fuel.....do....									
Purchased electricity.....do....									
Contract work.....do....	436	131	54	1,621	1,519	...	90	213	129
Purchased machinery installed.....do....	583	202	333	1,663	1,312	35	88	269	160
Capital expenditures, total.....do....	1,673	805	601	5,347	4,194	201	511	503	494
Development and exploration of mineral property.....do....	708	488	63	2,731	1,883	76	465	311	...
Mill construction and other construction.....do....	78	54	8	1,339	1,258	72	1	8	268
New machinery and equipment.....do....	836	244	530	1,253	1,032	50	45	153	226
Used plant and equipment.....do....	1	19	...	24	21	3	...	31	...
Energy used.....million kwh equivalent..	184	66	81	743	533	59	46	147	419
Coal.....1,000 short tons..	3	1	1	7	3	2	1	3	5
Fuel oil.....1,000 barrels..	9	8	(6)	56	37	1	1	10	(6)
Gas.....million cu. ft..	61	20	41	213	188	11	...	13	1,079
Other fuels and undistributed <sup>7</sup> .....\$1,000..	68	37	16	139	90	12	57	32	8
Electric energy purchased.....million kwh..	110	29	56	494	366	36	22	95	46
Electric energy generated and used.....do....	2	(D)	...	21	(D)	...	4	1	...

See footnotes at end of table.

Table 3.—Detailed Statistics for the Copper, Lead and Zinc, Gold, and Silver Ores Industries, by Regions and States and by Selected Types of Operation: 1958—Continued

Item	1031—Lead and zinc ores industry—Continued				104—Gold and silver ores—United States, total	1042—Lode gold				
	Producing establishments					United States, all operations	Pacific	South Dakota	Producing establishments	
	Lead ores subindustry		Zinc ores subindustry						Underground mines	
	Underground mines		Underground mines						All establishments	With mills
	With mills	Open-stop- ing with and with- out mills	With mills	Open-stop- ing with and with- out mills						
Number of establishments, total.....	24	58	17	35	379	244	91	4	72	21
With 0-19 employees.....	8	52	5	22	359	232	85	2	64	16
With 20-99 employees.....	8	2	3	6	16	11	6	1	7	4
With 100 employees and over.....	8	4	9	7	4	1	...	1	1	1
Including mines.....	24	58	17	35	377	242	91	4	72	21
Including mills.....	24	8	17	12	132	51	27	2	21	21
Crude ore mined.....1,000 short tons..	7,689	6,650	3,537	4,738	2,854	2,358	243	1,824	2,026	1,852
Value of shipments and receipts.....\$1,000..	50,289	27,455	23,146	20,471	48,389	29,506	5,692	20,062	26,561	24,169
Minerals transferred to other establishments for preparation, and resales.....do....	...	27,455	23,146	20,471	{ 1,408 46,981	{ 1,272 28,234	5,692	{ ... 20,062	1,268 25,293	... 24,169
Net shipments and receipts, total.....do....	50,289	(D)	(D)	(D)	46,655	28,164	(D)	20,062	25,225	24,109
Primary products.....do....	40,075	(D)	(D)	(D)	326	70	(D)	...	68	60
Other products and services <sup>2</sup> .....do....	10,214	(D)	(D)	(D)						
Value added in mining.....do....	36,549	20,475	16,379	13,797	37,896	22,659	4,721	15,803	21,569	19,511
Number of persons engaged, total.....	4,981	3,204	2,761	2,145	4,267	2,780	401	1,850	2,175	1,968
Production and development workers, average for year.....	4,053	2,568	2,231	1,724	3,411	2,234	276	1,590	1,808	1,670
March.....	4,341	2,791	2,392	1,890	3,332	2,205	245	1,609	1,851	1,700
May.....	4,180	2,675	2,362	1,886	3,449	2,260	297	1,594	1,827	1,691
August.....	3,758	2,365	2,171	1,611	3,487	2,296	295	1,594	1,805	1,665
November.....	3,920	2,405	1,996	1,520	3,429	2,225	296	1,563	1,767	1,631
All other employees.....	918	585	527	402	528	352	45	260	302	286
Proprietors and firm members.....	10	51	3	19	328	194	80	...	65	12
Performing manual labor.....	7	27	3	16	241	145	55	...	50	8
Man-hours worked by production and development workers, total.....1,000..	7,630	4,711	4,193	3,346	7,071	4,602	565	3,285	3,792	3,505
At mines, total.....do....	6,751	4,118	3,631	2,891	6,275	4,026	468	2,968	3,451	3,164
Underground.....do....	4,964	3,070	2,848	2,288	4,195	2,943	324	2,334	2,711	2,509
Open-pit <sup>3</sup> .....do....	...	...	...	...	660	98	22	4	...	...
Surface (including mine shops and yards) <sup>5</sup> .....do....	1,787	1,048	783	603	1,420	985	122	630	740	655
At mills <sup>5</sup> .....do....	879	593	562	455	796	576	97	317	341	341
Man-hours spent on development and exploration work (included above).....do....	797	476	179	177	967	483	77	246	272	256
Principal expenses designated below, total.....\$1,000..	39,490	22,539	20,489	17,946	32,533	20,258	2,880	13,542	16,025	14,828
Wages of production and development workers.....do....	18,235	10,763	9,124	7,202	17,064	10,709	1,292	8,060	9,328	8,694
Salaries of all other employees.....do....	5,451	3,017	2,978	2,364	2,930	1,738	222	1,348	1,547	1,493
Supplies and purchases for resale.....do....	11,758	5,424	6,029	6,126	{ 8,258 1,090	5,917	847	{ 3,412 ...	4,126	3,793
Minerals received for preparation.....do....	344	264	278	240	868	577	165	159	230	181
Purchased fuel.....do....	2,542	1,887	1,619	1,548	1,658	890	113	558	678	599
Purchased electricity.....do....	1,160	1,184	461	466	665	427	241	5	116	68
Contract work.....do....										
Purchased machinery installed.....do....	1,062	908	601	606	1,178	764	118	437	522	515
Capital expenditures, total.....do....	3,126	2,687	2,221	2,312	3,224	1,728	513	312	680	498
Development and exploration of mineral property.....do....	1,690	1,338	1,041	1,033	1,181	470	154	...	81	27
Mill construction and other construction.....do....	693	667	646	645	962	503	120	262	358	339
New machinery and equipment.....do....	740	667	513	609	766	535	178	48	187	110
Used plant and equipment.....do....	3	15	21	25	315	220	61	2	54	22
Energy used.....million kwh equivalent..	454	335	289	264	528	347	51	219	295	279
Coal.....1,000 short tons..	2	1	5	3	17	16	...	16	16	16
Fuel oil.....1,000 barrels..	21	14	35	31	26	16	5	( <sup>6</sup> )	2	...
Gas.....million cu. ft..	209	184	4	24	79	79	...	69	53	53
Other fuels and undistributed <sup>7</sup> .....\$1,000..	125	100	14	27	569	348	127	59	334	300
Electric energy purchased.....million kwh..	308	221	186	174	187	86	11	60	69	65
Electric energy generated and used.....do....	19	18	2	( <sup>6</sup> )	9	7	1	...	( <sup>6</sup> )	( <sup>6</sup> )

See footnotes at end of table.



Table 3.—Detailed Statistics for the Copper, Lead and Zinc, Gold, and Silver Ores Industries, by Regions and States and by Selected Types of Operation: 1958—Continued

Item	1042—Lode gold— Continued		1043—Placer gold				1044—Silver ores			
	Producing establishments		United States and Alaska	United States	Alaska	United States	United States	Idaho	Producing establishments	
	Mills, with or without mines								Total	Mines with mills
	Total	Using methods other than flotation <sup>1</sup>								
Number of establishments, total.....	33	27	165	74	91	46	61	14	42	7
With 0-19 employees.....	24	20	159	71	88	43	56	9	38	3
With 20-99 employees.....	8	6	4	2	2	2	3	3	2	2
With 100 employees and over.....	1	1	2	1	1	1	2	2	2	2
Including mines.....	32	26	165	74	91	46	61	14	42	7
Including mills.....	33	27	165	74	91	46	7	4	7	7
Crude ore mined.....1,000 short tons..	2,182	2,093	xxx	xxx	xxx	xxx	496	440	496	448
Value of shipments and receipts.....\$1,000..	27,076	23,156	12,628	6,326	6,302	6,326	12,557	11,915	12,557	11,907
Minerals transferred to other establishments for preparation, and resales.....do....	1	1	...	...	...	...	136	...	136	...
Net shipments and receipts, total.....do....	27,075	23,155	12,628	6,326	6,302	6,326	12,421	11,915	12,421	11,907
Primary products.....do....	27,009	23,148	12,628	{ 6,314	{ 6,302	6,326	{ 12,177	11,915	{ 12,177	11,907
Other products and services <sup>2</sup> .....do....	66	7								
Value added in mining.....do....	20,445	16,949	9,123	4,873	4,250	4,814	10,364	9,588	10,403	9,648
Number of persons engaged, total.....	2,195	2,073	1,037	441	596	373	1,046	883	975	888
Production and development workers, average for year.....	1,868	1,766	753	323	430	283	854	793	803	772
March.....	1,889	1,765	598	294	304	268	833	773	789	755
May.....	1,898	1,782	855	319	536	279	870	807	818	787
August.....	1,869	1,782	928	342	586	295	849	794	796	764
November.....	1,825	1,740	613	328	285	284	876	806	817	789
All other employees .....	308	291	87	41	46	35	135	85	125	112
Proprietors and firm members.....	19	16	197	77	120	55	57	5	47	4
Performing manual labor.....	15	15	164	56	108	42	40	3	38	1
Man-hours worked by production and development workers, total.....1,000..	3,933	3,695	1,882	723	1,159	668	1,746	1,634	1,640	1,581
At mines, total.....do....	3,372	3,181	1,635	672	963	618	1,577	1,479	1,471	1,412
Underground.....do....	2,601	2,450	2	2	...	...	1,250	1,179	1,213	1,159
Open-pit <sup>3</sup> .....do....	84	81	1,250	555	695	545	7	5	7	2
Surface (including mine shops and yards) <sup>5</sup> .....do....	687	650	383	115	268	73	320	295	251	251
At mills <sup>5</sup> .....do....	561	514	247	51	196	50	169	155	169	169
Man-hours spent on development and exploration work (included above).....do....	256	244	154	132	22	120	352	292	255	213
Principal expenses designated below, total.....\$1,000..	17,594	16,412	8,829	3,470	5,359	3,250	8,805	7,869	7,940	7,452
Wages of production and develop- ment workers.....do....	9,383	8,806	4,204	1,515	2,689	1,432	4,840	4,529	4,556	4,364
Salaries of all other employees.....do....	1,592	1,486	809	275	534	260	917	565	869	785
Supplies and purchases for resale.....do....	5,416	5,062	{ 2,074	1,070	1,004	1,045	{ 2,361	{ 2,215	2,004	1,896
Minerals received for preparation.....do....										
Purchased fuel.....do....	329	301	1,064	94	970	53	197	157	95	64
Purchased electricity.....do....	731	674	431	431	...	425	337	301	314	285
Contract work.....do....	143	83	247	85	162	35	153	102	102	58
Purchased machinery installed.....do....	559	521	617	113	504	42	301	257	197	180
Capital expenditures, total.....do....	547	434	928	340	588	88	1,156	705	558	224
Development and exploration of mineral property.....do....	27	15	215	65	150	20	646	304	347	74
Mill construction and other con- struction.....do....	344	282	244	91	153	32	368	308	93	74
New machinery and equipment.....do....	150	121	374	115	259	20	116	93	100	75
Used plant and equipment.....do....	26	16	95	69	26	16	26		18	1
Energy used.....million kwh equivalent..	299	120	579	71	508	22	110	96	78	86
Coal.....1,000 short tons..	16	1	(D)	...	(D)	...	1	1	1	1
Fuel oil.....1,000 barrels..	14	3	37	(6)	37	(6)	10	9	10	5
Gas.....million cu. ft..	79	26	...	...	...	...	...	...	...	...
Other fuels and undistri- buted <sup>7</sup> .....\$1,000..	217	123	(D)	93	(D)	53	128	97	19	94
Electric energy purchased.....million kwh..	74	68	48	48	...	9	53	49	49	46
Electric energy generated and used.....do....	7	6	(D)	...	(D)	...	2	1	2	1

D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>Represents mainly mills using either amalgamation or cyanidation as the principal milling method. <sup>2</sup>In addition, receipts of \$1,693 thousand for milling crude ore on a custom or toll basis were reported, of which approximately two-thirds represented receipts in the Lead and Zinc Ores Industry and one-third receipts in the Lode Gold Industry. This is included above in the value of the concentrates shipped. <sup>3</sup>For the Lead and Zinc Ores Industry, figures for employment at separately reported central offices and related facilities are included in the United States, regional, and State figures but not in the figures by types of operation. <sup>4</sup>The figure for man-hours at mills is combined with the figure for man-hours at mines. <sup>5</sup>For the Placer Gold Industry, respondents were requested to report under "open-pit" man-hours, man-hours for mining surface placer gravels, including thawing, stripping, hydraulicking, and panning. Under man-hours "at mills," they were requested to include work at sluice boxes and washing plants. For dredges and other floating equipment, respondents were asked to allocate man-hours between "open-pit" and "mill or washing plant." It appears that some establishments utilizing dredging and floating washing equipment may have shown mill or washing plant hours under "surface." <sup>6</sup>Less than one-half of the unit of measure specified. <sup>7</sup>Undistributed fuels costs for the Copper Ores Industry were \$31 thousand; for the Lead and Zinc Ores Industry, \$175 thousand; and for the Gold and Silver Ores Industries, \$455 thousand. Revised.

Table 4.—Selected Statistics for Establishments Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1021	COPPER ORES:											
	Number of establishments.....	143	36	14	10	6	3	5	7	7	9	1
	All employees:											
	Number.....	127,642	96	73	130	182	154	850	2,329	5,204	17,023	(D)
	Payroll.....\$1,000..	143,501	370	311	639	1,119	700	3,678	12,441	25,833	88,782	(D)
	Production and devel- opment workers:											
	Number.....	20,898	83	65	114	136	136	720	1,912	4,038	13,694	(D)
	Man-hours.....1,000..	41,021	141	114	244	306	241	1,439	3,993	7,497	27,046	(D)
	Wages.....\$1,000..	106,357	322	280	546	851	574	3,079	9,676	18,419	72,610	(D)
	Value added in mining..do....	266,485	379	406	608	2,055	(2)	6,796	30,572	58,327	167,523	(D)
	Value of shipments and receipts.....do....	457,644	472	682	640	3,571	(D)	16,922	59,318	95,782	280,257	(D)
	Capital expenditures.....do....	44,874	287	140	534	12,032	2	421	4,071	8,312	19,075	(D)
	Number of producing estab- lishments, by type of operation, total.....	85	36	8	7	4	1	5	7	7	9	1
	Mines only:											
	Open-pits.....	19	13	1	1	...	...	1	1	1	1	...
	Combination open-pit and underground mines...	2	1	...	...	...	...	...	...	...	1	...
	Underground mines:											
	Open-stopping.....	21	16	1	2	1	...	...	...	1	...	...
	Shrinkage stopping.....	1	...	...	1	...	...	...	...	...	...	...
	Square setting and block caving.....	2	...	...	...	1	...	...	...	...	1	...
	Other.....	7	4	2	...	1	...	...	...	...	...	...
	Mines with mills:											
	Open-pits.....	14	1	1	1	1	...	...	5	3	2	...
	Combination open-pit and underground mines...	1	...	1	...	...	...	...	...	...	...	...
	Underground mines:											
	Open-stopping.....	3	1	...	1	...	...	...	...	...	1	...
	Shrinkage stopping.....	3	...	...	1	...	...	2	...	...	...	...
	Square setting.....	1	...	...	...	...	...	...	...	...	1	...
	Cut-and-fill stopping...	1	...	...	...	...	...	1	...	...	...	...
	Block caving.....	2	...	...	...	...	...	...	...	1	...	1
	Other.....	1	...	1	...	...	...	...	...	...	...	...
	Mills only:											
	Flotation.....	6	...	...	...	...	1	1	1	1	2	...
	Other.....	1	...	1	...	...	...	...	...	...	...	...
1031	LEAD AND ZINC ORES:											
	Number of establishments...	288	181	31	24	17	11	13	8	2	1	...
	All employees:											
	Number.....	11,227	234	203	352	539	749	2,240	6,910	(D)	(D)	...
	Payroll.....\$1,000..	54,397	870	882	1,542	2,455	3,832	11,540	33,276	(D)	(D)	...
	Production and devel- opment workers:											
	Number.....	8,728	202	166	255	413	584	1,622	5,486	(D)	(D)	...
	Man-hours.....1,000..	16,734	323	307	465	783	1,201	3,186	10,469	(D)	(D)	...
	Wages.....\$1,000..	39,001	710	660	1,076	1,776	2,803	7,721	24,255	(D)	(D)	...
	Value added in mining..do....	73,679	613	838	2,742	2,048	8,114	14,638	44,686	(D)	(D)	...
	Value of shipments and receipts.....do....	120,561	1,710	1,280	6,494	5,987	20,445	25,079	59,566	(D)	(D)	...
	Capital expenditures.....do....	8,619	691	255	247	1,098	426	2,332	3,570	(D)	(D)	...
	Lead ores subindustry:											
	Number of establishments...	211	152	18	15	11	3	7	2	2	1	...
	All employees:											
	Number.....	6,883	182	118	210	353	187	1,196	4,637	(D)	(D)	...
	Payroll.....\$1,000..	33,759	642	494	950	1,642	1,066	6,245	22,720	(D)	(D)	...
	Production and devel- opment workers:											
	Number.....	5,460	159	95	160	271	158	963	3,654	(D)	(D)	...
	Man-hours.....1,000..	10,397	240	170	280	508	328	1,972	6,899	(D)	(D)	...
	Wages.....\$1,000..	24,843	538	351	691	1,171	821	5,068	16,203	(D)	(D)	...
	Value added in mining.....do....	48,023	488	468	1,258	1,176	3,725	10,054	30,854	(D)	(D)	...
	Value of shipments and receipts.....do....	75,603	1,367	626	4,317	2,925	12,437	13,771	40,160	(D)	(D)	...
	Capital expendi- tures.....do....	4,496	528	199	175	298	226	416	2,654	(D)	(D)	...

See footnotes at end of table.



Table 4.—Selected Statistics for Establishments Classified by Employment Size, for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1031	LEAD AND ZINC ORES—Con.											
	Lead ores subindustry—Con.											
	Number of producing estab- lishments, by type of operation, total.....	115	73	8	10	9	3	7	2	2	1	...
	Mines only:											
	Open-pits.....	10	10	...	...	...	...	...	...	...	...	...
	Combination open-pit and underground mines.	3	3	...	...	...	...	...	...	...	...	...
	Underground mines:											
	Open-stopping.....	50	35	8	6	1	...	...	...	...	...	...
	Shrinkage stopping....	1	1	...	...	...	...	...	...	...	...	...
	Square setting.....	3	1	...	1	...	...	...	...	1	...	...
	Cut-and-fill stopping.	6	3	...	...	...	1	2	...	...	...	...
	Other.....	12	12	...	...	...	...	...	...	...	...	...
	Mines with mills:											
	Open-pits.....	1	1	...	...	...	...	...	...	...	...	...
	Combination open-pit and underground mines.	2	1	...	...	...	...	1	...	...	...	...
	Underground mines:											
	Open-stopping.....	8	3	...	...	1	...	3	...	...	1	...
	Shrinkage stopping....	5	1	...	...	2	1	...	1	...	...	...
	Square setting.....	4	...	...	...	2	...	...	1	1	...	...
	Cut-and-fill stopping.	6	1	...	2	2	...	1	...	...	...	...
	Other.....	1	1	...	...	...	...	...	...	...	...	...
	Mills only.....	3	...	...	1	1	1	...	...	...	...	...
	Zinc ores subindustry:											
	Number of establishments...	77	29	13	9	6	8	6	6	...	...	...
	All employees:											
	Number.....	4,344	52	85	142	186	562	1,044	2,273	...	...	...
	Payroll.....\$1,000..	20,638	228	388	592	813	2,766	5,295	10,556	...	...	...
	Production and devel- opment workers:											
	Number.....	3,268	43	71	95	142	426	659	1,832	...	...	...
	Man-hours.....1,000..	6,337	83	137	185	275	873	1,214	3,570	...	...	...
	Wages.....\$1,000..	14,158	172	309	385	605	1,982	2,653	8,052	...	...	...
	Value added in mining.....do....	25,656	125	370	1,484	872	4,389	4,584	13,832	...	...	...
	Value of shipments and receipts.....do....	44,958	343	654	2,177	3,062	8,008	11,308	19,406	...	...	...
	Capital expendi- tures.....do....	4,123	163	56	72	800	200	1,916	916	...	...	...
	Number of producing estab- lishments, by type of operation, total.....	56	16	8	8	4	8	6	6	...	...	...
	Mines only:											
	Open-pits.....	1	1	...	...	...	...	...	...	...	...	...
	Underground mines:											
	Open-stopping.....	23	8	8	3	1	2	1	...	...	...	...
	Shrinkage stopping....	2	1	...	1	...	...	...	...	...	...	...
	Square setting.....	2	...	...	...	1	1	...	...	...	...	...
	Cut-and-fill stopping.	2	1	...	...	...	...	...	1	...	...	...
	Other.....	1	1	...	...	...	...	...	...	...	...	...
	Mines with mills:											
	Open-pits.....	1	1	...	...	...	...	...	...	...	...	...
	Combination open-pit and underground mines.	1	...	...	...	...	1	...	...	...	...	...
	Underground mines:											
	Open-stopping.....	12	1	...	2	...	3	3	3	...	...	...
	Shrinkage stopping....	2	1	...	...	...	...	1	...	...	...	...
	Square setting.....	2	...	...	1	...	...	...	1	...	...	...
	Cut-and-fill stopping.	1	...	...	...	...	...	...	1	...	...	...
	Mills only.....	6	1	...	1	2	1	1	...	...	...	...
1042	LODE GOLD:											
	Number of establishments....	244	212	15	5	7	4	...	...	...	1	...
	All employees:											
	Number.....	2,586	208	88	63	206	2,021	...	...	...	(D)	...
	Payroll.....\$1,000..	12,447	652	295	226	955	10,319	...	...	...	(D)	...
	Production and devel- opment workers:											
	Number.....	2,234	195	74	46	175	1,744	...	...	...	(D)	...
	Man-hours.....1,000..	4,602	318	127	106	377	2,674	...	...	...	(D)	...
	Wages.....\$1,000..	10,709	602	242	196	811	8,858	...	...	...	(D)	...

See footnotes at end of table.

Table 4.—Selected Statistics for Establishments Classified by Employment Size, for the United States: 1958—Continued

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
1042	LODE GOLD—Con.											
	Value added in mining.....\$1,000..	22,659	646	145	168	2,025	<u>19,675</u>	...	...	...	(D)	...
	Value of shipments and receipts.....do....	29,506	882	97	129	3,801	<u>24,597</u>	...	...	...	(D)	...
	Capital expenditures.....do....	1,728	824	249	162	83	<u>410</u>	...	...	...	(D)	...
	Number of producing establishments, by type of operation, total.....	104	85	5	2	7	4	...	...	...	1	...
	Mines only:											
	Open-pits.....	20	20	...	...	...	...	...	...	...	...	...
	Underground mines:											
	Open-stopping.....	35	31	3	...	1	...	...	...	...	...	...
	Shrinkage stopping.....	4	2	...	...	1	1	...	...	...	...	...
	Square setting.....	1	1	...	...	...	...	...	...	...	...	...
	Block caving.....	1	1	...	...	...	...	...	...	...	...	...
	Other.....	10	10	...	...	...	...	...	...	...	...	...
	Mines with mills:											
	Open-pits.....	9	7	...	...	1	1	...	...	...	...	...
	Combination open pit and underground mines...	2	1	...	...	...	1	...	...	...	...	...
	Underground mines:											
	Open-stopping.....	11	8	1	...	2	...	...	...	...	...	...
	Shrinkage stopping.....	3	1	...	1	...	...	...	...	...	...	...
	Square setting.....	2	...	...	1	...	...	...	...	...	1	...
	Cut-and-fill stopping...	3	1	1	...	...	1	...	...	...	...	...
	Other.....	2	2	...	...	...	...	...	...	...	...	...
	Mills only.....	1	...	...	...	1	...	...	...	...	...	...
1043	PLACER GOLD:											
	Number of establishments.....	74	69	2	...	...	2	1	...	...	...	...
	All employees:											
	Number.....	364	<u>63</u>	(D)	...	...	<u>301</u>	(D)	...	...	...	...
	Payroll.....\$1,000..	1,790	<u>151</u>	(D)	...	...	<u>1,639</u>	(D)	...	...	...	...
	Production and development workers:											
	Number.....	323	<u>56</u>	(D)	...	...	<u>267</u>	(D)	...	...	...	...
	Man-hours.....1,000..	723	<u>87</u>	(D)	...	...	<u>636</u>	(D)	...	...	...	...
	Wages.....\$1,000..	1,515	<u>130</u>	(D)	...	...	<u>1,385</u>	(D)	...	...	...	...
	Value added in mining..do....	4,873	<u>160</u>	(D)	...	...	<u>4,713</u>	(D)	...	...	...	...
	Value of shipments and receipts.....do....	6,326	<u>222</u>	(D)	...	...	<u>6,104</u>	(D)	...	...	...	...
	Capital expenditures.....do....	340	<u>335</u>	(D)	...	...	<u>2</u>	(D)	...	...	...	...
	Number of producing establishments.....	46	42	1	...	...	2	1	...	...	...	...
1044	SILVER ORES:											
	Number of establishments.....	61	51	1	4	2	1	1	...	1	...	...
	All employees:											
	Number.....	989	<u>53</u>	(D)	<u>104</u>	(D)	832	(D)	...	(D)	...	...
	Payroll.....\$1,000..	5,757	<u>226</u>	(D)	<u>618</u>	(D)	<u>4,913</u>	(D)	...	(D)	...	...
	Production and development workers:											
	Number.....	854	<u>35</u>	(D)	<u>92</u>	(D)	<u>727</u>	(D)	...	(D)	...	...
	Man-hours.....1,000..	1,746	<u>57</u>	(D)	<u>188</u>	(D)	<u>1,501</u>	(D)	...	(D)	...	...
	Wages.....\$1,000..	4,840	<u>139</u>	(D)	<u>532</u>	(D)	<u>4,169</u>	(D)	...	(D)	...	...
	Value added in mining..do....	10,364	<u>472</u>	...	<u>608</u>	(D)	<u>9,284</u>	(D)	...	(D)	...	...
	Value of shipments and receipts.....do....	12,557	<u>576</u>	...	<u>497</u>	(D)	<u>11,484</u>	(D)	...	(D)	...	...
	Capital expenditures.....do....	1,156	<u>215</u>	...	<u>798</u>	(D)	<u>143</u>	(D)	...	(D)	...	...
	Number of producing establishments, by type of operation, total.....	42	35	...	3	1	1	1	...	1	...	...
	Mines only:											
	Open-pits.....	11	11	...	...	...	...	...	...	...	...	...
	Combination open-pit and underground mines...	1	1	...	...	...	...	...	...	...	...	...
	Underground mines:											
	Open-stopping.....	17	16	...	1	...	...	...	...	...	...	...
	Shrinkage stopping.....	1	1	...	...	...	...	...	...	...	...	...
	Square setting.....	2	2	...	...	...	...	...	...	...	...	...
	Other.....	3	3	...	...	...	...	...	...	...	...	...
	Mines with mills:											
	Combination open-pit and underground mines...	2	...	...	1	1	...	...	...	...	...	...
	Underground mines:											
	Open-stopping.....	1	1	...	...	...	...	...	...	...	...	...
	Shrinkage stopping.....	1	...	...	...	...	1	...	...	...	...	...
	Cut-and-fill stopping...	1	...	...	...	...	...	1	...	...	...	...
	Other.....	2	...	...	1	...	...	...	...	1	...	...

D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>Includes figures for separately reported central offices and related facilities. These were not distributed by employment size. <sup>2</sup>Value added is not shown since the cost of supplies, minerals received for preparation, fuels, purchased electricity, contract work, and purchased machinery installed exceeded the value of shipments and receipts and capital expenditures.



Table 5A.—Industry-Product Analysis; Summary of Industry Shipments and Receipts and  
Net Shipments of Primary Products for the United States: 1958 and 1954

Ind. code	Industry and year	Value of shipments and receipts of establishments classified in the industry (\$1,000)					Value of net shipments of primary products of the industry shipped by establishments in all industries (\$1,000)		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total, produced in all industries	Produced in this industry	Produced in other industries
1021	Copper ores.....1958.. 1954..	457,644 508,729	440,410 484,161	17,054 24,056	130 512	50 ...	369,419 393,941	357,244 385,343	12,175 8,598
1031	Lead and zinc ores.....1958.. 1954..	120,561 175,947	116,420 172,602	4,031 2,950	110 395	... ...	102,676 138,617	99,702 136,787	2,974 1,830
	Lead ores subindustry.....1958.. 1954..	75,603 94,874	61,553 (NA)	13,940 (NA)	110 (NA)	... ...	59,941 (NA)	54,094 (NA)	5,847 (NA)
	Zinc ores subindustry.....1958.. 1954..	44,958 81,073	37,790 (NA)	7,168 (NA)	... (NA)	... ...	42,735 (NA)	28,531 (NA)	14,204 (NA)
1042	Lode gold.....1958.. 1954..	29,506 28,517	29,436 28,507	70 (D)	... (D)	... ...	29,072 27,447	28,164 26,882	908 565
1043	Placer gold.....1958.. 1954..	6,326 5,916	6,314 5,908	12 (D)	... (D)	... ...	6,314 5,975	6,314 5,908	... 67
1044	Silver ores.....1958.. 1954..	12,557 12,148	12,313 (D)	244 (D)	... (D)	... ...	13,093 11,956	12,177 (D)	916 (D)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

Table 5B.—Copper, Lead, Zinc, Gold, and Silver Ores Mined and Gross Metal Content of Copper, Lead, Zinc, Gold, and Silver Bearing Materials Shipped in the United States: 1958

Product	All industries, total	Copper, lead, zinc, gold, and silver ores industries and subindustries							All other industries
		Total	Copper ores	Lead ores	Zinc ores	Lode gold	Placer gold	Silver ores	
Copper, lead, zinc, gold, and silver ores mined.....1,000 short tons..	(NA)	129,216	111,957	8,761	5,644	2,358	xxx	496	(NA)
Gross copper content, total.....1,000 pounds..	1,993,911	1,951,242	1,919,191	16,040	9,447	28	...	6,536	42,669
Crude ores shipped to smelters and leaching plants.....do...	121,995	121,988	114,605	1,810	5,510	23	...	40	7
Concentrates, total.....do...	1,697,048	1,654,506	1,629,839	14,229	3,937	5	...	6,496	42,542
Copper concentrates.....do...	1,677,879	1,637,037	1,629,839	5,955	1,243	...	...	...	40,842
Lead, zinc, gold, and silver concentrates.....do...	19,169	17,469	...	8,274	2,694	5	...	6,496	1,700
Copper precipitates.....do...	174,868	174,748	174,747	1	...	...	...	...	120
Gross lead content, total.....do...	571,832	556,773	573	483,550	66,108	255	...	6,287	15,059
Crude ores shipped to smelters.....do...	39,980	39,269	564	37,057	423	199	...	1,026	711
Concentrates, total.....do...	531,852	517,504	9	446,493	65,685	56	...	5,261	14,348
Lead concentrates.....do...	496,097	494,162	...	436,443	57,716	3	...	...	1,935
Copper, zinc, gold, and silver concentrates.....do...	35,755	23,342	9	10,050	7,969	53	...	5,261	12,413
Gross zinc content, total.....do...	927,407	884,961	1,860	268,130	613,824	554	...	593	42,446
Crude ores shipped to smelters.....do...	31,888	31,828	465	29,662	1,015	485	...	201	60
Concentrates, total.....do...	895,519	853,133	1,395	238,468	612,809	69	...	392	42,386
Zinc concentrates.....do...	864,198	821,839	1,395	212,328	608,116	...	...	...	42,359
Copper, lead, gold, and silver concentrates.....do...	31,321	31,294	...	26,140	4,693	69	...	392	27
Gross gold content, total.....1,000 fine ounces..	1,557.0	1,531.6	449.5	97.3	11.8	787.7	180.8	4.5	25.4
From lode deposits, total.....do...	1,376.2	1,350.8	449.5	97.3	11.8	787.7	...	4.5	25.4
Crude ores shipped to smelters.....do...	107.9	107.3	35.2	19.7	6.7	42.6	...	3.1	0.6
Concentrates, total.....do...	588.0	563.2	414.3	65.3	5.1	77.1	...	1.4	24.8
Gold concentrates.....do...	91.4	79.7	...	2.6	...	77.1	...	...	11.7
Copper, lead, zinc, and silver concentrates.....do...	1496.6	1483.5	414.3	62.7	5.1	...	...	11.4	13.1
Mill bullion and precipitates.....do...	1680.3	1680.3	...	12.3	...	668.0	...	(1)	...
From placer gravels.....do...	180.8	180.8	...	...	...	...	180.8	...	...
Gross silver content, total.....do...	35,577	34,985	8,281	9,975	2,659	1,694	30	12,346	592
From lode deposits, total.....do...	35,547	34,955	8,281	9,975	2,659	1,694	...	12,346	592
Crude ores shipped to smelters.....do...	4,997	4,986	1,131	1,632	796	932	...	495	11
Concentrates, total.....do...	30,205	29,624	7,150	8,303	1,863	457	...	11,851	581
Silver concentrates.....do...	11,851	11,851	...	...	...	...	...	11,851	...
Copper, lead, zinc, and gold concentrates.....do...	18,354	17,773	7,150	8,303	1,863	457	...	...	581
Mill bullion and precipitates.....do...	1345	1345	...	40	...	305	...	(1)	...
From placer gravels.....do...	30	30	...	...	...	...	30	...	...

<sup>1</sup>Mill bullion produced in the Silver Ores Industry is included with Silver concentrates.



Table 6A.—Primary Products of the Copper, Lead, Zinc, Gold, and Silver Ores

Product, region, and State		1958				
		Production  (1,000 short tons)	Shipments including interplant transfers or receipts for milling		Gross quantity of metals contained <sup>1</sup>	
			Quantity (1,000 short tons)	Value (\$1,000)	Copper (1,000 pounds)	Lead (1,000 pounds)
COPPER ORES <sup>2</sup>						
United States, total:						
Production and shipments:						
Crude ore:						
1	Mined in the copper ores industry, total.....	111,957	xxx	xxx	(NA)	(NA)
2	From underground operations.....	24,096	xxx	xxx	(NA)	(NA)
3	From open-pit operations.....	87,861	xxx	xxx	(NA)	(NA)
Copper ore and old tailings:						
4	Shipped to smelters and leaching plants <sup>3</sup> .....	xxx	3,930	21,622	114,610	538
5	Shipped to mills.....	xxx	46,878	83,166	849,820	...
6	Copper concentrates.....	3,307	3,186	316,147	1,677,879	1,007
7	Copper precipitates.....	(NA)	112	31,650	174,868	xxx
Minerals milled in the copper ores industry:						
8	Mined and milled at same establishment.....	65,605	xxx	xxx	(NA)	(NA)
9	Received from other establishments for milling.....	xxx	47,257	89,011	(NA)	(NA)
Montana:						
Production and shipments:						
Crude ore:						
10	Mined in the copper ores industry, total.....	10,107	xxx	xxx	(NA)	(NA)
11	From underground operations.....	3,460	xxx	xxx	(NA)	(NA)
12	From open-pit operations.....	6,647	xxx	xxx	(NA)	(NA)
13	Copper ore and old tailings shipped to smelters, leaching plants, and mills.....	xxx	10,094	19,450	222,129	26
14	Copper concentrates.....	351	351	32,367	181,063	...
15	Copper precipitates.....	(NA)	7	611	5,897	xxx
16	Minerals milled in the copper ores industry.....	410,070	(4)	(D)	(NA)	(NA)
Arizona:						
Production and shipments:						
Crude ore:						
17	Mined in the copper ores industry, total.....	56,525	xxx	xxx	(NA)	(NA)
18	From underground operations.....	14,352	xxx	xxx	(NA)	(NA)
19	From open-pit operations.....	42,173	xxx	xxx	(NA)	(NA)
20	Copper ore and old tailings shipped to smelters, leaching plants, and mills <sup>3</sup> .....	xxx	3,925	23,410	135,468	6
21	Copper concentrates and precipitates.....	51,731	1,657	185,277	871,384	...
22	Minerals milled in the copper ores industry.....	455,871	(4)	(D)	(NA)	(NA)
Other States: <sup>6</sup>						
Production and shipments:						
Crude ore:						
23	Mined in the copper ores industry, total.....	45,325	xxx	xxx	(NA)	(NA)
24	From underground operations.....	6,284	xxx	xxx	(NA)	(NA)
25	From open-pit operations.....	39,041	xxx	xxx	(NA)	(NA)
26	Copper ore shipped to smelters, leaching plants, and mills <sup>3</sup> .....	xxx	36,789	61,928	606,833	506
27	Copper concentrates and precipitates.....	51,225	1,283	129,542	794,403	1,007
28	Minerals milled in the copper ores industry.....	446,921	(4)	(D)	(NA)	(NA)
LEAD AND ZINC ORES						
United States, total: <sup>7</sup>						
Production and shipments:						
Crude ores:						
29	Mined in the lead and zinc ores industry, total.....	14,405	xxx	xxx	(NA)	(NA)
30	From underground operations.....	14,358	xxx	xxx	(NA)	(NA)
31	From open-pit operations.....	47	xxx	xxx	(NA)	(NA)
32	Mined in the lead ores subindustry, total.....	8,761	xxx	xxx	(NA)	(NA)
33	From underground operations.....	8,733	xxx	xxx	(NA)	(NA)
34	From open-pit operations.....	28	xxx	xxx	(NA)	(NA)
35	Mined in the zinc ores subindustry, total.....	5,644	xxx	xxx	(NA)	(NA)
36	From underground operations.....	5,625	xxx	xxx	(NA)	(NA)
37	From open-pit operations.....	19	xxx	xxx	(NA)	(NA)
38	Lead and zinc ores and old tailings shipped to smelters, total <sup>3</sup> .....	xxx	260	5,184	1,624	38,039
39	Lead ore shipped to smelters.....	xxx	257	5,128	1,620	37,616
40	Zinc ore shipped to smelters.....	xxx	3	56	4	423
41	Lead and zinc ores and old tailings shipped to mills, total.....	xxx	2,688	16,740	6,669	89,130
42	Lead ore shipped to mills.....	xxx	628	7,481	3,500	70,163
43	Zinc ore shipped to mills.....	xxx	2,060	9,259	3,169	18,967
44	Lead concentrates.....	383	383	54,813	6,196	496,097
45	Zinc concentrates.....	758	753	42,679	5,255	28,834

See footnotes at end of table.

## Industries Produced in All Industries, by Regions and States: 1958 and 1954

1958--Continued			1954							
Gross quantity of metals contained <sup>1</sup> --Continued			Production (1,000 short tons)	Shipments including interplant transfers or receipts for milling		Gross quantity of metals contained <sup>1</sup>				
Copper (1,000 pounds)	Lead (1,000 fine ounces)	Silver (1,000 fine ounces)		Quantity (1,000 short tons)	Value (\$1,000)	Copper (1,000 pounds)	Lead (1,000 pounds)	Zinc (1,000 pounds)	Gold (1,000 fine ounces)	Silver (1,000 fine ounces)
(NA)	(NA)	(NA)	90,992	xxx	xxx	1,802,885	261	14,395	699.8	9,698
(NA)	(NA)	(NA)	12,294	xxx	xxx	418,928	191	14,395	91.4	4,884
(NA)	(NA)	(NA)	17,093	xxx	xxx	1,585,957	70	...	608.4	4,814
405	54.3	1,071	xxx	4,056	22,278	139,128	242	1,393	35.4	1,453
...	460.4	2,530	xxx	32,556	98,818	712,615	19	2,058	552.7	5,179
612	430.2	1,000	2,838	2,835	536,340	1,384,776	789	395	495.1	6,853
xxx	xxx	xxx	(NA)	90	28,323	136,138	xxx	xxx	xxx	xxx
(NA)	(NA)	(NA)	52,851	xxx	xxx	946,738	(D)	11,918	112.8	2,900
(NA)	(NA)	(NA)	xxx	35,539	100,693	712,065	(D)	1,978	552.7	5,169
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
...	24.7	2,771	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
...	14.0	2,046	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
xxx	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	42,095	xxx	xxx	863,315	39	12,808	110.7	3,882
(NA)	(NA)	(NA)	5,885	xxx	xxx	215,005	39	12,808	54.2	2,288
(NA)	(NA)	(NA)	37,212	xxx	xxx	648,312	...	...	56.5	1,594
(D)	38.6	904	xxx	3,871	28,668	135,331	(D)	3,383	35.5	1,390
...	77.8	2,743	51,276	1,303	169,955	655,230	...	243	61.6	2,076
(NA)	(NA)	(NA)	439,352	(4)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	47,897	xxx	xxx	229,570	222	1,587	589.1	5,816
(NA)	(NA)	(NA)	7,411	xxx	xxx	203,925	152	1,587	37.2	2,596
(NA)	(NA)	(NA)	40,486	xxx	xxx	735,645	70	...	551.9	3,220
(D)	431.9	2,976	xxx	35,741	99,428	716,412	(D)	68	552.6	5,242
612	338.7	2,614	51,562	1,622	194,708	885,684	789	152	432.5	4,777
(NA)	(NA)	(NA)	449,058	(4)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	18,526	xxx	xxx	28,949	674,446	1,061,588	154.5	17,569
(NA)	(NA)	(NA)	17,805	xxx	xxx	28,906	661,654	1,031,610	153.5	17,431
(NA)	(NA)	(NA)	721	xxx	xxx	...	12,792	29,978	1.0	138
(NA)	(NA)	(NA)	9,698	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	9,445	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	253	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	8,828	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	8,360	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	468	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
30,691	20.2	1,611	xxx	453	6,773	5,693	23,751	47,794	17.4	3,034
29,676	20.1	1,607	xxx	167	3,097	5,693	23,751	47,794	17.4	3,034
1,015	0.1	4	xxx	286	3,676	5,693	23,751	47,794	17.4	3,034
221,257	18.8	3,347	xxx	5,331	35,815	8,839	174,366	398,914	67.1	6,747
59,756	15.0	2,265	xxx	5,331	17,673	8,839	174,366	398,914	67.1	6,747
161,501	2.8	1,084	xxx	5,331	18,142	8,839	174,366	398,914	67.1	6,747
29,185	52.4	8,166	470	472	75,793	8,389	592,814	19,011	64.0	9,662
864,198	12.3	2,128	900	890	56,051	4,501	19,966	849,924	14.9	3,148



Table 6A.—Primary Products of the Copper, Lead, Zinc, Gold, and Silver Ores

	Product, region, and State	1950				
		Production (1,000 short tons)	Shipments including interplant transfers or receipts for milling		Gross quantity of metals contained <sup>1</sup>	
			Quantity (1,000 short tons)	Value (\$1,000)	Copper (1,000 pounds)	Lead (1,000 pounds)
	LEAD AND ZINC ORES—Continued					
	United States—Continued					
	Minerals milled in the lead and zinc ores industry:					
1	Mined and milled at same establishment, total.....	11,927	xxx	xxx	(NA)	(NA)
2	In the lead ores subindustry.....	8,385	xxx	xxx	(NA)	(NA)
3	In the zinc ores subindustry.....	3,542	xxx	xxx	(NA)	(NA)
4	Received from other establishments for milling, total.....	xxx	2,924	21,517	(NA)	(NA)
5	In the lead ores subindustry.....	xxx	609	11,353	(NA)	(NA)
6	In the zinc ores subindustry.....	xxx	2,315	10,164	(NA)	(NA)
	Northeast and North Central:					
	Production and shipments:					
	Crude ores:					
7	Mined in the lead and zinc ores industry, total.....	7,947	xxx	xxx	(NA)	(NA)
8	From underground operations.....	7,947	xxx	xxx	(NA)	(NA)
9	From open-pit operations.....	(8)	xxx	xxx	(NA)	(NA)
10	Mined in the lead ores subindustry.....	5,929	xxx	xxx	(NA)	(NA)
11	Mined in the zinc ores subindustry.....	2,018	xxx	xxx	(NA)	(NA)
12	Lead and zinc ores and old tailings shipped to mills.....	xxx	983	2,284	1	3,248
13	Lead concentrates.....	164	164	23,562	406	237,715
14	Zinc concentrates.....	192	192	8,609	...	4,570
15	Minerals milled in the lead and zinc ores industry.....	48,238	(4)	(D)	(NA)	(NA)
	Missouri:					
	Production and shipments:					
	Crude ore mined in the lead and zinc ores industry, total <sup>10</sup>	5,929	xxx	xxx	(NA)	(NA)
16	From underground operations.....	5,929	xxx	xxx	(NA)	(NA)
17	From open-pit operations.....	...	xxx	xxx	(NA)	(NA)
18	Lead and zinc concentrates.....	160	160	23,083	406	33,997
19	Minerals produced and milled in the same establishment in the lead ores subindustry.....	6,406	xxx	xxx	(NA)	(NA)
	South:					
	Production and shipments:					
	Crude ores:					
20	Mined in the lead and zinc ores industry, total.....	2,673	xxx	xxx	(NA)	(NA)
21	From underground operations.....	2,673	xxx	xxx	(NA)	(NA)
22	From open-pit operations.....	(8)	xxx	xxx	(NA)	(NA)
23	Mined in the lead ores subindustry.....	256	xxx	xxx	(NA)	(NA)
24	Mined in the zinc ores subindustry.....	2,417	xxx	xxx	(NA)	(NA)
25	Lead and zinc ores and old tailings shipped to mills.....	xxx	908	2,021	...	7,468
26	Lead concentrates.....	12	12	1,514	...	17,289
27	Zinc concentrates.....	160	158	9,912	...	1,734
28	Minerals milled in the lead and zinc ores industry.....	42,891	(4)	(D)	(NA)	(NA)
	West:					
	Production and shipments:					
	Crude ores:					
29	Mined in the lead and zinc ores industry, total.....	3,785	xxx	xxx	(NA)	(NA)
30	From underground operations.....	3,738	xxx	xxx	(NA)	(NA)
31	From open-pit operations.....	47	xxx	xxx	(NA)	(NA)
32	Mined in the lead ores subindustry.....	2,576	xxx	xxx	(NA)	(NA)
33	Mined in the zinc ores subindustry.....	1,209	xxx	xxx	(NA)	(NA)
34	Lead and zinc ores and old tailings shipped to smelters, total <sup>9</sup> .....	xxx	257	5,124	1,624	36,857
35	Lead ore shipped to smelters.....	xxx	256	5,105	}	36,857
36	Zinc ore shipped to smelters.....	xxx	1	19		
37	Lead and zinc ores and old tailings shipped to mills, total.....	xxx	797	12,435	6,668	78,414
38	Lead ore shipped to mills.....	xxx	375	6,781	3,499	63,993
39	Zinc ore shipped to mills.....	xxx	422	5,654	3,169	14,421
40	Lead concentrates.....	207	207	29,737	5,790	241,093
41	Zinc concentrates.....	406	403	24,158	5,255	22,550
	Minerals milled in the lead and zinc ores industry:					
42	Mined and milled at same establishment, total.....	2,723	xxx	xxx	(NA)	(NA)
43	In the lead ores subindustry.....	1,974	xxx	xxx	(NA)	(NA)
44	In the zinc ores subindustry.....	749	xxx	xxx	(NA)	(NA)
45	Received from other establishments for milling, total.....	xxx	999	17,045	(NA)	(NA)
46	In the lead ores subindustry.....	xxx	609	11,353	(NA)	(NA)
47	In the zinc ores subindustry.....	xxx	390	5,692	(NA)	(NA)

See footnotes at end of table.

## Industries Produced in All Industries, by Regions and States: 1958 and 1954-Continued

1958-Continued			1954							
Gross quantity of metals contained <sup>1</sup> -Continued			Production (1,000 short tons)	Shipments including interplant transfers or receipts for milling		Gross quantity of metals contained <sup>1</sup>				
Zinc (1,000 pounds)	Gold (1,000 fine ounces)	Silver (1,000 fine ounces)		Quantity (1,000 short tons)	Value (\$1,000)	Copper (1,000 pounds)	Lead (1,000 pounds)	Zinc (1,000 pounds)	Gold (1,000 fine ounces)	Silver (1,000 fine ounces)
(NA)	(NA)	(NA)	14,448	xxx	xxx	12,965	504,770	627,184	74.6	7,766
(NA)	(NA)	(NA)	9,866	xxx	xxx	10,434	435,251	121,676	37.4	5,835
(NA)	(NA)	(NA)	4,582	xxx	xxx	2,531	69,519	505,508	37.2	1,931
(NA)	(NA)	(NA)	xxx	5,493	35,116	10,544	175,462	406,546	68.5	7,258
(NA)	(NA)	(NA)	xxx	764	14,197	4,876	107,982	104,634	53.1	3,714
(NA)	(NA)	(NA)	xxx	4,729	20,919	5,668	67,480	301,912	15.4	3,544
(NA)	(NA)	(NA)	9,511	xxx	xxx	5,125	274,289	344,035	...	(D)
(NA)	(NA)	(NA)	9,225	xxx	xxx	5,125	266,570	340,428	...	(D)
(NA)	(NA)	(NA)	286	xxx	xxx	...	7,719	3,607	...	...
(NA)	(NA)	(NA)	6,505	xxxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	3,006	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
57,104	...	(D)	xxx	1,509	4,304	...	15,838	94,020	...	...
15	...	235	191	191	31,152	1,891	264,109	73	...	(D)
257,592	...	...	293	296	14,319	...	31	227,453	...	(D)
(NA)	(NA)	(NA)	9,502	831	2,220	5,125	290,278	285,711	...	442
(NA)	(NA)	(NA)	6,539	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	6,254	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	285	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
798	...	224	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	...	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	4,023	xxx	xxx	...	42,735	219,309	...	(D)
(NA)	(NA)	(NA)	4,022	xxx	xxx	...	42,727	219,222	...	(D)
(NA)	(NA)	(NA)	1	xxx	xxx	...	8	87	...	...
(NA)	(NA)	(NA)	432	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	3,591	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
44,768	(NA)	(D)	xxx	2,221	5,868	...	29,082	106,417	...	...
640	...	...	26	27	4,488	...	42,093	...	...	(D)
197,670	...	...	187	179	12,152	...	...	204,213	...	...
(NA)	(NA)	(NA)	1,804	3,033	7,427	...	47,442	237,966	...	2
(NA)	(NA)	(NA)	4,992	xxx	xxx	23,824	357,422	498,244	154.5	17,125
(NA)	(NA)	(NA)	4,992	xxx	xxx	23,824	357,422	498,244	154.5	17,125
(NA)	(NA)	(NA)	2,761	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	2,231	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
29,945	50.3	815	xxx	269	4,781	5,693	23,393	2,633	17.4	3,034
29,945	50.3	815	xxx	269	4,781	5,693	23,393	2,633	17.4	3,034
119,385	18.8	3,311	xxx	1,601	25,643	8,839	129,446	198,477	67.1	6,747
53,441	15.0	2,227	xxx	1,601	15,838	8,839	129,446	198,477	67.1	6,747
65,944	3.8	1,084	xxx	1,601	9,805	8,839	129,446	198,477	67.1	6,747
28,530	52.4	7,931	253	254	40,153	6,498	286,612	18,958	64.0	41
408,936	12.3	2,128	420	415	29,580	4,501	19,955	418,258	14.9	12,423
(NA)	(NA)	(NA)	3,142	xxx	xxx	7,840	207,551	286,482	74.6	7,322
(NA)	(NA)	(NA)	3,142	xxx	xxx	7,840	207,551	286,482	74.6	7,322
(NA)	(NA)	(NA)	xxx	1,629	25,469	10,544	134,961	223,571	68.5	7,258
(NA)	(NA)	(NA)	xxx	701	14,041	4,876	106,569	102,423	53.1	3,714
(NA)	(NA)	(NA)	xxx	928	11,428	5,668	28,392	121,148	15.4	3,544



Table 6A.—Primary Products of the Copper, Lead, Zinc, Gold, and Silver Ores

	Product, region, and State	1958				
		Production (1,000 short tons)	Shipments including interplant transfers or receipts for milling		Gross quantity of metals contained <sup>1</sup>	
			Quantity (1,000 short tons)	Value (\$1,000)	Copper (1,000 pounds)	Lead (1,000 pounds)
	LEAD AND ZINC ORES—Continued					
	West—Continued					
	Montana:					
	Production and shipments:					
	Crude ores:					
1	Mined in the lead and zinc ores industry, total.....	322	xxx	xxx	(NA)	(NA)
2	From underground operations.....	316	xxx	xxx	(NA)	(NA)
3	From open-pit operations.....	6	xxx	xxx	(NA)	(NA)
4	Mined in the lead ores subindustry, total.....	26	xxx	xxx	(NA)	(NA)
5	From underground operations.....	20	xxx	xxx	(NA)	(NA)
6	From open-pit operations.....	6	xxx	xxx	(NA)	(NA)
7	Mined in the zinc ores subindustry (all from underground operations).....	296	xxx	xxx	(NA)	(NA)
8	Lead ore and old tailings shipped to smelters <sup>3</sup> .....	xxx	15	267	40	1,877
9	Lead and zinc ores and old tailings shipped to mills....	xxx	297	3,827	1,787	5,834
10	Lead concentrates.....	9	10	1,383	1,139	11,039
11	Zinc concentrates.....	86	87	6,558	1,741	9,769
	Idaho:					
	Production and shipments:					
	Crude ores:					
12	Mined in the lead and zinc ores industry.....	873	xxx	xxx	(NA)	(NA)
13	Lead and zinc ores and old tailings shipped to smelters <sup>3</sup> ..	xxx	12	142	11	908
14	Lead and zinc ores and old tailings shipped to mills....	xxx	86	2,021	228	11,563
15	Lead concentrates.....	73	73	11,542	560	94,167
16	Zinc concentrates.....	74	74	3,923	67	3,732
17	Minerals milled in the lead and zinc ores industry.....	4853	(4)	(D)	(NA)	(NA)
	Arizona:					
	Production and shipments:					
	Crude ores:					
18	Mined in the lead and zinc ores industry (all from underground operations).....	334	xxx	xxx	(NA)	(NA)
19	Lead and zinc ores and old tailings shipped to smelters..	xxx	69	604	866	4,190
20	Lead and zinc ores and old tailings shipped to mills....	xxx				
21	Lead concentrates.....	30	30	3,118	645	20,472
22	Zinc concentrates.....	51	51	2,403	315	936
23	Minerals milled in the lead and zinc ores industry.....	4377	(4)	(D)	(NA)	(NA)
	Utah:					
	Production and shipments:					
	Crude ores:					
24	Mined in the lead and zinc ores industry.....	522	xxx	xxx	(NA)	(NA)
25	Lead and zinc ores and old tailings shipped to smelters and mills <sup>3</sup> .....	xxx	522	9,058	4,552	80,181
26	Lead and zinc concentrates.....	126	126	11,274	3,529	76,837
	Nevada:					
	Production and shipments:					
	Crude ores:					
27	Mined in the lead and zinc ores industry.....	7	xxx	xxx	(NA)	(NA)
28	Lead ores and old tailings shipped to smelters.....	xxx	22	1,051	31	7,116
	LODE GOLD					
	United States, total: <sup>11</sup>					
	Production and shipments:					
	Crude ores:					
29	Mined in the lode gold industry, total.....	2,358	xxx	xxx	(NA)	(NA)
30	From underground operations.....	2,123	xxx	xxx	(NA)	(NA)
31	From open-pit operations.....	235	xxx	xxx	(NA)	(NA)
32	Gold ore and old tailings shipped to smelters <sup>3</sup> .....	xxx	92	1,192	2,776	199
33	Gold ore and old tailings shipped to mills.....	xxx	92	1,272	44	(D)
34	Gold concentrates.....	28	101	3,790	1,222	653
35	Gold mill bullion and precipitates, total.....	xxx	xxx	24,090	xxx	xxx
36	Recovered by amalgamation.....	xxx	xxx	15,461	xxx	xxx
37	Recovered by cyanidation.....	xxx	xxx	8,629	xxx	xxx
38	Minerals milled in the lode gold industry.....	42,288	(4)	(D)	(NA)	(NA)
	Pacific:					
	Production and shipments:					
	Crude ores:					
39	Mined in the lode gold industry, total.....	243	xxx	xxx	(NA)	(NA)
40	From underground operations.....	179	xxx	xxx	(NA)	(NA)
41	From open-pit operations.....	64	xxx	xxx	(NA)	(NA)
42	Gold concentrates and gold mill bullion and precipitates...	xxx	xxx	5,138	(D)	(D)
43	Minerals milled in the lode gold industry.....	4177	(4)	(D)	(NA)	(NA)

See footnotes at end of table.

## Industries Produced in All Industries, by Regions and States: 1958 and 1954-Continued

1958-Continued			1954							
Gross quantity of metals contained <sup>1</sup> -Continued			Production	Shipments including interplant transfers or receipts for milling		Gross quantity of metals contained <sup>1</sup>				
Zinc (1,000 pounds)	Gold (1,000 fine ounces)	Silver (1,000 fine ounces)	(1,000 short tons)	Quantity (1,000 short tons)	Value (\$1,000)	Copper (1,000 pounds)	Lead (1,000 pounds)	Zinc (1,000 pounds)	Gold (1,000 fine ounces)	Silver (1,000 fine ounces)
(NA)	(NA)	(NA)	910	xxx	xxx	5,050	27,102	108,271	15.6	3,274
(NA)	(NA)	(NA)	904	xxx	xxx	5,041	26,731	108,104	15.2	3,233
(NA)	(NA)	(NA)	6	xxx	xxx	9	571	167	0.4	41
(NA)	(NA)	(NA)	(NA)	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
443	0.5	35	xxx	22	467	175	3,454	321	1.9	195
37,269	2.6	855	xxx	885	9,667	5,023	22,448	106,982	14.1	3,147
1,266	0.5	416	17	17	2,995	1,657	17,036	2,303	3.1	880
69,764	3.7	1,033	107	107	10,515	2,280	7,337	107,463	7.2	2,077
(NA)	(NA)	(NA)	1,250	xxx	xxx	829	134,825	113,280	5.6	4,914
632	0.3	20	xxx	8	230	54	1,510	305	0.1	49
5,807	1.5	1,022	xxx	133	2,484	135	12,798	11,933	0.3	664
11,586	1.2	3,668	90	90	16,357	682	119,715	8,934	1.1	4,282
75,468	0.8	315	90	95	5,507	36	4,953	91,580	0.8	397
(NA)	(NA)	(NA)	1,137	129	2,165	835	133,968	113,661	5.7	4,950
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
5,792	0.5	83	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
5,189	22.9	831	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
58,015	2.2	149	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	626	xxx	xxx	5,327	100,663	84,482	50.3	3,367
87,803	26.2	1,769	xxx	624	13,522	4,312	95,842	71,801	49.6	3,237
80,037	16.3	2,375	140	140	14,805	3,458	84,678	67,498	31.2	2,491
(NA)	(NA)	(NA)	71	xxx	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
1,093	6.7	271	xxx	(D)	(D)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	2,248	xxx	xxx	73	239	401	803.7	606
(NA)	(NA)	(NA)	1,999	xxx	xxx	68	216	395	759.8	558
(NA)	(NA)	(NA)	249	xxx	xxx	5	23	6	43.9	48
485	45.9	932	xxx	67	757	24	31	33	28.7	(D)
(D)	43.1	51	xxx	173	1,625	47	98	288	71.0	34
1,132	91.4	657	15	15	1,556	10	369	577	41.6	230
xxx	680.3	345	xxx	xxx	25,134	xxx	xxx	xxx	713.2	303
xxx	438.9	100	xxx	xxx	14,965	xxx	xxx	xxx	425.5	94
xxx	241.4	245	xxx	xxx	10,169	xxx	xxx	xxx	287.7	209
(NA)	(NA)	(NA)	2,055	142	1,274	14	103	73	768.5	523
(NA)	(NA)	(NA)	304	xxx	xxx	14	106	78	146.7	331
(NA)	(NA)	(NA)	277	xxx	xxx	13	106	78	131.4	294
(NA)	(NA)	(NA)	27	xxx	xxx	1	...	...	15.3	37
...	126.3	705	xxx	xxx	4,422	10	86	59	121.8	235
(NA)	(NA)	(NA)	251	(*)	(D)	12	91	65	125.3	304



Table 6A.-Primary Products of the Copper, Lead, Zinc, Gold, and Silver Ores

	Product, region, and State	1958				
		Production (1,000 short tons)	Shipments including interplant transfers or receipts for milling		Gross quantity of metals contained <sup>1</sup>	
			Quantity (1,000 short tons)	Value (\$1,000)	Copper (1,000 pounds)	Lead (1,000 pounds)
	LODE GOLD--Continued					
	South Dakota:					
	Production and shipments:					
1	Crude ores mined in the lode gold industry.....	1,824	xxx	xxx	(NA)	(NA)
2	Gold mill bullion and precipitates.....	xxx	xxx	20,062	xxx	xxx
3	Minerals mined and milled at same establishment in the lode gold industry.....	1,824	xxx	xxx	(NA)	(NA)
	Colorado:					
	Production and shipments:					
	Crude ores:					
4	Mined in the lode gold industry, total.....	105	xxx	xxx	(NA)	(NA)
5	From underground operations.....	104	xxx	xxx	(NA)	(NA)
6	From open-pit operations.....	1	xxx	xxx	(NA)	(NA)
7	Shipped to smelters.....	xxx	4	60	2,754	...
8	Shipped to mills.....	xxx	89	1,219	41	(D)
9	Gold concentrates and gold mill bullion and precipitates...	xxx	xxx	1,933	...	...
10	Minerals milled in the lode gold industry.....	<sup>4</sup> 120	( <sup>4</sup> )	(D)	(NA)	(NA)
	Other States: <sup>12</sup>					
	Production and shipments:					
	Crude ores:					
11	Mined in the lode gold industry.....	186	xxx	xxx	(NA)	(NA)
12	Gold ores and old tailings shipped to smelters and mills <sup>3</sup>	xxx	25	359	22	223
13	Gold concentrates and gold mill bullion and precipitates...	xxx	xxx	747	(D)	(D)
14	Minerals produced and milled in same establishment in the lode gold industry.....	167	xxx	xxx	(NA)	(NA)
	PLACER GOLD					
	United States and Alaska, total:					
	Production and shipments:					
15	Placer gold.....	<sup>13</sup> 362.1	<sup>13</sup> 362.5	12,580	xxx	xxx
16	Placer silver <sup>14</sup> .....	<sup>13</sup> 51	<sup>13</sup> 51	41	xxx	xxx
17	Gravel washed in the placer gold industry to recover placer gold and silver.....	<sup>15</sup> 46,056	xxx	xxx	xxx	xxx
	United States:					
	Production and shipments:					
18	Placer gold.....	<sup>13</sup> 180.8	<sup>13</sup> 180.8	6,288	xxx	xxx
19	Placer silver <sup>14</sup> .....	<sup>13</sup> 30	<sup>13</sup> 30	26	xxx	xxx
20	Gravel washed in the placer gold industry to recover placer gold and silver.....	<sup>15</sup> 29,291	xxx	xxx	xxx	xxx
	Alaska:					
	Production and shipments:					
21	Placer gold.....	<sup>13</sup> 181.3	<sup>13</sup> 181.7	6,292	xxx	xxx
22	Placer silver <sup>14</sup> .....	<sup>13</sup> 21	<sup>13</sup> 21	15	xxx	xxx
23	Gravel washed in the placer gold industry to recover placer gold and silver.....	<sup>15</sup> 16,765	xxx	xxx	xxx	xxx
	SILVER ORES					
	United States:					
	Production and shipments:					
	Crude ore:					
24	Mined in the silver ores industry, total.....	496	xxx	xxx	(NA)	(NA)
25	From underground operations.....	454	xxx	xxx	(NA)	(NA)
26	From open-pit operations.....	42	xxx	xxx	(NA)	(NA)
	Silver ore and old tailings:					
27	Shipped to smelters.....	xxx	102	1,419	2,985	1,204
28	Shipped to mills.....	xxx	8	136	45	370
29	Silver concentrates and silver mill bullion.....	<sup>5</sup> 21	<sup>5</sup> 21	11,674	<sup>5</sup> 6,496	<sup>5</sup> 5,261
30	Minerals milled in the silver ores industry.....	<sup>4</sup> 459	( <sup>4</sup> )	(D)	(NA)	(NA)

See footnotes at end of table.

## Industries Produced in All Industries, by Regions and States: 1958 and 1954-Continued

1958-Continued			1954							
Gross quantity of metals contained <sup>1</sup> -Continued			Production (1,000 short tons)	Shipments including interplant transfers or receipts for milling		Gross quantity of metals contained <sup>1</sup>				
Zinc (1,000 pounds)	Gold (1,000 fine ounces)	Silver (1,000 fine ounces)		Quantity (1,000 short tons)	Value (\$1,000)	Copper (1,000 pounds)	Lead (1,000 pounds)	Zinc (1,000 pounds)	Gold (1,000 fine ounces)	Silver (1,000 fine ounces)
(NA)	(NA)	(NA)	1,601	xxx	xxx	...	...	...	561.6	178
xxx	570.8	153	xxx	xxx	19,088	xxx	xxx	xxx	541.4	151
(NA)	(NA)	(NA)	1,601	xxx	xxx	...	...	...	561.6	178
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
...	7.6	806	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1	41.7	28	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
...	55.1	23	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	343	xxx	xxx	59	133	323	95.4	97
515	8.5	109	xxx	178	1,722	68	112	308	70.7	(D)
(D)	19.5	121	xxx	xxx	3,180	...	283	518	91.6	127
(NA)	(NA)	(NA)	4345	(4)	(D)	2	12	8	81.6	41
xxx	362.5	xxx	13416.0	13418.3	14,620	xxx	xxx	xxx	418.3	45
xxx	xxx	51	13416	13415						
xxx	(NA)	(NA)	1554,813	xxx	xxx	xxx	xxx	xxx	(NA)	(NA)
xxx	180.8	xxx	13170.7	13171.2	5,965	xxx	xxx	xxx	171.2	xxx
xxx	xxx	30	1313	1312						
xxx	(NA)	(NA)	1550,888	xxx	xxx	xxx	xxx	xxx	(NA)	(NA)
xxx	181.7	xxx	13245.3	13247.1	18,645	xxx	xxx	xxx	247.1	33
xxx	xxx	21	1333	1333						
xxx	(NA)	(NA)	153,925	xxx	xxx	xxx	xxx	xxx	(NA)	(NA)
(NA)	(NA)	(NA)	514	xxx	xxx	5,338	11,664	3,656	4.8	12,353
(NA)	(NA)	(NA)	444	xxx	xxx	5,142	11,201	3,583	3.5	12,040
(NA)	(NA)	(NA)	70	xxx	xxx	196	463	73	1.3	313
247	7.0	1,383	xxx	100	584	318	(D)	(D)	(D)	678
341	0.8	67	xxx	5	97	39	425	230	0.2	79
5392	1.4	11,851	521	521	511,372	54,565	57,706	595	51.2	511,174
(NA)	(NA)	(NA)	4410	(4)	5	4,946	8,810	2,914	1.5	11,651



Table 6A.—Primary Products of the Copper, Lead, Zinc, Gold, and Silver Ores

Product, region, and State		1958				
		Production  (1,000 short tons)	Shipments including interplant transfers or receipts for milling		Gross quantity of metals contained <sup>1</sup>	
			Quantity (1,000 short tons)	Value (\$1,000)	Copper (1,000 pounds)	Lead (1,000 pounds)
SILVER ORES—Continued						
Idaho:						
Production and shipments:						
Crude ore:						
1	Mined in the silver ores industry.....	440	xxx	xxx	(NA)	(NA)
2	Silver ore and old tailings shipped to smelters.....	xxx	16	11,681	6,476	5,272
3	Silver concentrates.....	21	21			
4	Minerals mined and milled at the same establishment in the silver ores industry.....	424	xxx	xxx	(NA)	(NA)
Other States:						
Production and shipments:						
Crude ore:						
5	Mined in the silver ores industry.....	56	xxx	xxx	(NA)	(NA)
Silver ore and old tailings:						
6	Shipped to mills.....	xxx	8	136	45	370
7	Shipped to smelters.....	xxx	86	1,412	3,005	1,193
8	Silver concentrates and silver mill bullion.....	(8)	(8)			
9	Minerals milled in the silver ores industry.....	435	(4)	(D)	(NA)	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Represents metal content of production where both production and shipments are shown. For 1954, old tailings (included in the figure for crude ore shipped to smelters and leaching plants) and concentrates, mill bullion, and precipitates, represent recoverable metal content.<sup>2</sup>In addition for Alaska, less than 15 thousand pounds of copper were contained in shipments of ores and old tailings valued at less than \$10 thousand.<sup>3</sup>For 1954, includes small quantities of other shipments, such as to ore buyers, which were reported separately.<sup>4</sup>Minerals received from other establishments for milling are combined with minerals mined and milled at the same establishment.<sup>5</sup>Represents concentrates only.<sup>6</sup>For 1954, includes figures for Montana.<sup>7</sup>In addition for Alaska, less than 15 tons of lead ore (containing less than 10 thousand pounds of lead) were mined and shipped to smelters, valued at less than \$5 thousand.

## Industries Produced in All Industries, by Regions and States: 1958 and 1954—Continued

1958--Continued			1954							
Gross quantity of metals contained <sup>1</sup> --Continued			Production  (1,000 short tons)	Shipments including interplant transfers or receipts for milling		Gross quantity of metals contained <sup>1</sup>				
Zinc (1,000 pounds)	Gold (1,000 fine ounces)	Silver (1,000 fine ounces)		Quantity (1,000 short tons)	Value (\$1,000)	Copper (1,000 pounds)	Lead (1,000 pounds)	Zinc (1,000 pounds)	Gold (1,000 fine ounces)	Silver (1,000 fine ounces)
(NA)	(NA)	(NA)	380	xxx	xxx	5,052	7,845	475	0.7	11,313
401	2.1	11,861	xxx	8	78	134	(D)	...	0.2	74
			20	20	11,103	4,548	7,204	18	0.5	10,963
(NA)	(NA)	(NA)	4372	(4)	(NA)	4,919	7,827	474	0.5	11,239
(NA)	(NA)	(NA)	134	xxx	xxx	286	3,819	3,181	4.1	1,040
341	0.8	67	xxx	5	97	39	425	230	0.2	79
238	6.3	1,373	xxx	92	506	184	(D)	(D)	(D)	604
			1	1	269	17	502	77	0.7	211
(NA)	(NA)	(NA)	438	(4)	(NA)	27	983	2,440	1.0	412

<sup>8</sup>Less than 500 tons.<sup>9</sup>Represents materials mined and milled in the same establishment.<sup>10</sup>For 1958, represents the lead ores subindustry only.<sup>11</sup>In addition, for Alaska, less than 40 tons were reported mined and 44 tons of crude ore and tailings and less than 2 tons of concentrates from mill clean-up were shipped containing a total of 174 ounces of gold and 20 ounces of silver.<sup>12</sup>For 1954, includes figures for Colorado.<sup>13</sup>Represents thousands of fine ounces.<sup>14</sup>Represents silver recovered as a secondary product in the Placer Gold Industry.<sup>15</sup>Represents thousands of cubic yards.<sup>16</sup>Excludes the value of a very small quantity of placer gold recovered as a secondary product in industries other than the Placer Gold Industry.



Table 6B.—Shipments of Selected Primary Products of the Copper, Lead, Zinc, Gold, and Silver Ores  
Industries Distributed by Value Per Short Ton: 1958

Product and average value per short ton f.o.b. mine or plant <sup>1</sup>	Quantity shipped		Value of shipments	
	Quantity (1,000 short tons)	Percent of total	Value (\$1,000)	Percent of total
COPPER ORES				
Crude copper ores shipped to smelters and leaching plants, total.....	3,930	100.0	21,622	100.0
Less than \$3.80.....	3,365	85.6	9,422	43.6
\$3.80-\$6.14.....	105	2.7	461	2.1
\$6.95-\$12.59.....	25	0.6	255	1.2
\$12.60-\$22.99.....	17	0.4	244	1.1
\$23.00-\$33.49.....	403	10.3	10,332	47.8
\$38.00 and over.....	15	0.4	908	4.2
Copper concentrates, total.....	3,186	100.0	316,147	100.0
Less than \$78.50.....	922	29.0	66,104	20.9
\$78.50-\$88.49.....	318	10.0	26,381	8.4
\$88.50-\$99.99.....	583	18.3	55,101	17.4
\$100.00-\$111.99.....	765	24.0	81,790	25.9
\$112.00-\$125.99.....	207	6.5	24,504	7.8
\$126.00-\$141.99.....	246	7.7	34,539	10.9
\$142.00-\$179.99.....	109	3.4	17,506	5.5
\$180.00 and over.....	36	1.1	10,222	3.2
Copper precipitates, total.....	112	100.0	31,650	100.0
Less than \$160.00.....	15	13.4	1,793	5.7
\$205.00-\$259.99.....	33	29.5	8,320	26.3
\$295.00-\$334.99.....	40	35.7	13,064	41.2
\$335.00 and over.....	24	21.4	8,473	26.8
LEAD AND ZINC ORES				
Crude lead and zinc ores shipped to smelters, total.....	260	100.0	5,184	100.0
Less than \$4.85.....	21	8.1	46	0.9
\$4.85-\$7.84.....	6	2.3	37	0.7
\$7.85-\$11.19.....	29	11.1	306	5.9
\$12.60-\$15.99.....	4	1.5	58	1.1
\$16.00-\$17.99.....	7	2.7	120	2.3
\$18.00-\$20.49.....	119	45.8	2,186	42.2
\$20.50-\$22.99.....	45	17.3	938	18.1
\$23.00-\$37.99.....	2	0.8	60	1.2
\$43.00-\$54.49.....	24	9.2	1,187	22.9
\$54.50 and over.....	3	1.2	246	4.7
Crude lead and zinc ores shipped to mills, total.....	2,688	100.0	16,740	100.0
Less than \$2.05.....	560	20.8	1,118	6.7
\$2.05-\$2.29.....	892	33.2	1,980	11.8
\$2.30-\$2.94.....	407	15.2	995	5.9
\$3.80-\$4.84.....	76	2.8	340	2.0
\$6.15-\$8.84.....	4	0.1	29	0.2
\$10.00-\$11.19.....	24	0.9	262	1.6
\$11.20-\$12.59.....	14	0.5	168	1.0
\$12.60-\$15.99.....	325	12.1	4,244	26.3
\$16.00-\$29.49.....	302	11.3	4,967	29.7
\$29.50 and over.....	84	3.1	2,637	15.8
Lead concentrates, total.....	383	100.0	54,813	100.0
Less than \$100.00.....	6	1.6	494	0.9
\$100.00-\$111.99.....	40	10.4	4,274	7.8
\$112.00-\$125.99.....	20	5.2	2,363	4.3
\$126.00-\$141.99.....	85	22.2	11,031	20.1
\$142.00-\$159.99.....	206	53.8	30,524	55.7
\$160.00 and over.....	26	6.8	6,127	11.2
Zinc concentrates, total.....	753	100.0	42,679	100.0
Less than \$29.50.....	17	2.2	338	0.8
\$29.50-\$42.99.....	151	20.1	5,321	12.5
\$43.00-\$54.49.....	272	36.1	13,875	32.5
\$54.50-\$61.49.....	181	24.0	10,566	24.7
\$61.50-\$78.49.....	39	5.2	2,478	5.8
\$78.50-\$111.99.....	72	9.6	7,346	17.2
\$112.00 and over.....	21	2.8	2,755	6.5

See footnotes at end of table.

Table 6B.—Shipments of Selected Primary Products of the Copper, Lead, Zinc, Gold, and Silver Ores Industries Distributed by Value Per Short Ton: 1958—Continued

Product and average value per short ton f.o.b. mine or plant <sup>1</sup>	Quantity shipped		Value of shipments	
	Quantity (1,000 short tons)	Percent of total	Value (\$1,000)	Percent of total
LODE GOLD				
Crude lode gold ores shipped to smelters, total.....	92	100.0	1,192	100.0
Less than \$6.95.....	12	13.0	31	2.6
\$7.85-\$12.59.....	67	72.8	785	65.9
\$12.60-\$20.49.....	9	9.8	159	13.3
\$20.50 and over.....	4	4.4	217	18.2
Crude lode gold ores shipped to mills, total.....	92	100.0	1,272	100.0
Less than \$8.85.....	29	31.5	227	17.9
\$11.20-\$17.99.....	33	35.9	391	30.7
\$18.00 and over.....	30	32.6	654	51.4
SILVER ORES				
Crude silver ores shipped to smelters, total.....	102	100.0	1,419	100.0
\$4.85-\$6.14.....	31	30.4	182	12.9
\$6.15-\$12.59.....	18	17.6	136	9.5
\$12.60-\$17.99.....	6	6.0	89	6.2
\$18.00-\$20.49.....	42	41.2	860	60.6
\$20.50 and over.....	5	4.8	152	10.8

<sup>1</sup>The "average values" are based on the entire shipments of the specified product by each establishment. Thus they are representative of varied average prices among establishments but not of variations within an establishment.



Table 7.-Supplies Used in the Copper, Lead, Zinc, Gold, and Silver Ores Industries,  
by Regions and States, and by Type of Operation: 1958 and 1954

(For the quantity and cost of minerals received for preparation, see table 6A. For the quantity and total cost of purchased fuels and electricity used, see table 3)

Ind. code	Industry or subindustry, supply used, region, State, and type of operation	Unit of measure	1958		1954	
			Quantity	Cost <sup>1</sup> (\$1,000)	Quantity	Cost (\$1,000)
1021	COPPER ORES INDUSTRY					
	United States:					
	Supplies used, total.....		xxx	86,537	xxx	72,822
	Explosives.....	1,000 pounds.....	50,355	5,244	45,774	6,597
	Steel mill shapes and forms.....	Short tons.....	71,692	11,386	74,393	11,591
	All other supplies.....		xxx	69,503	xxx	54,634
	Undistributed.....		xxx	404	xxx	...
	Montana:					
	Supplies used, total.....		xxx	8,100		
	Explosives.....	1,000 pounds.....	4,763	364		
	Steel mill shapes and forms.....	Short tons.....	2,514	464	(NA)	(NA)
	All other supplies.....		xxx	7,249		
	Undistributed.....		xxx	23		
	Arizona:					
	Supplies used, total.....		xxx	244,037		
	Explosives.....	1,000 pounds.....	24,637	2,641		
	Steel mill shapes and forms.....	Short tons.....	31,646	4,998	(NA)	(NA)
	All other supplies.....		xxx	236,305		
	Undistributed.....		xxx	93		
	Other States:					
	Supplies used, total.....		xxx	2100,558		
	Explosives.....	1,000 pounds.....	20,955	2,239		
	Steel mill shapes and forms.....	Short tons.....	37,532	5,924	(NA)	(NA)
	All other supplies.....		xxx	292,107		
	Undistributed.....		xxx	288		
	<u>Type of Operation</u>					
	Producing establishments:					
	Supplies used, total.....		xxx	86,032		
	Explosives.....	1,000 pounds.....	50,355	5,244		
	Steel mill shapes and forms.....	Short tons.....	71,692	11,386	(NA)	(NA)
	All other supplies.....		xxx	69,228		
	Undistributed.....		xxx	174		
	Underground mines without mills:					
	Supplies used, total.....		xxx	4,018		
	Explosives.....	1,000 pounds.....	2,425	469		
	Steel mill shapes and forms.....	Short tons.....	406	195	(NA)	(NA)
	All other supplies.....		xxx	3,286		
	Undistributed.....		xxx	68		
	Underground mines with mills:					
	Supplies used, total.....		xxx	19,567		
	Explosives.....	1,000 pounds.....	5,853	1,105		
	Steel mill shapes and forms.....	Short tons.....	28,167	4,250	(NA)	(NA)
	All other supplies.....		xxx	14,182		
	Undistributed.....		xxx	30		
	Open-pit mines, combination open-pit and underground mines, and mills only:					
	Supplies used, total.....		xxx	62,447		
	Explosives.....	1,000 pounds.....	42,077	3,670		
	Steel mill shapes and forms.....	Short tons.....	43,119	6,941	(NA)	(NA)
	All other supplies.....		xxx	51,760		
	Undistributed.....		xxx	76		
	Nonproducing establishments:					
	Supplies used, total.....		xxx	505	xxx	3,688
	All other supplies.....		xxx	275		
	Undistributed.....		xxx	230	(NA)	(NA)
1031	LEAD AND ZINC ORES INDUSTRY					
	United States:					
	Supplies used, total.....		xxx	21,185	xxx	24,673
	Explosives.....	1,000 pounds.....	11,411	2,363	16,645	3,148
	Steel mill shapes and forms.....	Short tons.....	14,777	3,918	15,866	2,982
	All other supplies.....		xxx	13,619	xxx	18,543
	Undistributed.....		xxx	1,285	xxx	...

See footnotes at end of table.

Table 7.—Supplies Used in the Copper, Lead, Zinc, Gold, and Silver Ores Industries, by Regions and States, and by Type of Operation: 1958 and 1954—Continued

Ind. code	Industry or subindustry, supply used, region, State, and type of operation	Unit of measure	1958		1954	
			Quantity	Cost <sup>1</sup> (\$1,000)	Quantity	Cost (\$1,000)
1031	LEAD AND ZINC ORES INDUSTRY—Continued					
	United States—Continued					
	Lead ores subindustry:					
	Supplies used, total.....	.....	xxx	12,996	xxx	12,790
	Explosives.....	1,000 pounds.....	6,513	1,328	8,940	1,603
	Steel mill shapes and forms.....	Short tons.....	8,019	3,112	10,016	1,941
	All other supplies.....	.....	xxx	7,422	xxx	9,246
	Undistributed.....	.....	xxx	1,134	xxx	...
	Zinc ores subindustry:					
	Supplies used, total.....	.....	xxx	8,189	xxx	11,883
	Explosives.....	1,000 pounds.....	4,898	1,035	7,705	1,545
	Steel mill shapes and forms.....	Short tons.....	6,758	806	5,850	1,041
	All other supplies.....	.....	xxx	6,197	xxx	9,297
	Undistributed.....	.....	xxx	151	xxx	...
	Northeast and North Central:					
	Explosives.....	1,000 pounds.....	4,661	986	6,643	1,216
	Steel mill shapes and forms.....	Short tons.....	5,853	2,134	8,108	1,459
	Missouri:					
	Explosives.....	1,000 pounds.....	2,864	597	(NA)	(NA)
	Steel mill shapes and forms.....	Short tons.....	5,174	1,942		
	South:					
	Explosives.....	1,000 pounds.....	2,208	459	2,970	533
	Steel mill shapes and forms.....	Short tons.....	1,751	368	1,706	377
	West:					
	Explosives.....	1,000 pounds.....	4,542	918	7,032	1,399
	Steel mill shapes and forms.....	Short tons.....	7,173	1,416	6,052	1,146
	Idaho:					
	Explosives.....	1,000 pounds.....	1,049	222	2,047	381
	Steel mill shapes and forms.....	Short tons.....	4,936	392	1,620	300
	Arizona:					
	Explosives.....	1,000 pounds.....	492	78	(NA)	(NA)
	Steel mill shapes and forms.....	Short tons.....	450	123		
	Utah:					
	Explosives.....	1,000 pounds.....	774	157	(NA)	(NA)
	Steel mill shapes and forms.....	Short tons.....	852	249		
	<u>Type of Operation</u>					
	Producing establishments:					
	Supplies used, total.....	.....	xxx	20,349	xxx	23,786
	Explosives.....	1,000 pounds.....	11,322	2,345	(NA)	(NA)
	Steel mill shapes and forms.....	Short tons.....	14,699	3,898		
	All other supplies.....	.....	xxx	13,334		
	Undistributed.....	.....	xxx	772		
	Underground mines:					
	Without mills:					
	Supplies used, total.....	.....	xxx	4,254	xxx	5,856
	Explosives.....	1,000 pounds.....	2,804	618	(NA)	(NA)
	Steel mill shapes and forms.....	Short tons.....	1,089	355		
	All other supplies.....	.....	xxx	2,630		
	Undistributed.....	.....	xxx	651		
	With mills:					
	Supplies used, total.....	.....	xxx	217,787	xxx	14,915
	Explosives.....	1,000 pounds.....	8,297	1,681	(NA)	(NA)
	Steel mill shapes and forms.....	Short tons.....	13,056	3,434		
	All other supplies.....	.....	xxx	9,200		
	Undistributed.....	.....	xxx	23,472		
	Mills only:					
	Steel mill shapes and forms.....	Short tons.....	539	104	(NA)	(NA)
	Nonproducing establishments:					
	Supplies used, total.....	.....	xxx	836	xxx	887
	Explosives.....	1,000 pounds.....	89	18	(NA)	(NA)
	Steel mill shapes and forms.....	Short tons.....	78	20		
	All other supplies.....	.....	xxx	285		
	Undistributed.....	.....	xxx	513		

See footnotes at end of table.



Table 7.-Supplies Used in the Copper, Lead, Zinc, Gold, and Silver Ores Industries,  
by Regions and States, and by Type of Operation: 1958 and 1954-Continued

Ind. code	Industry or subindustry, supply used, region, State, and type of operation	Unit of measure	1958		1954	
			Quantity	Cost <sup>1</sup> (\$1,000)	Quantity	Cost (\$1,000)
1042	LODE GOLD INDUSTRY					
	United States:					
	Supplies used, total.....		xxx	<sup>2</sup> 5,917	xxx	5,017
	Explosives.....	1,000 pounds.....	2,290	451	3,286	594
	Steel mill shapes and forms.....	Short tons.....	3,002	606	3,000	546
	All other supplies.....		xxx	<sup>2</sup> 4,578	xxx	3,877
	Undistributed.....		xxx	282	xxx	...
	South Dakota:					
	Supplies used, total.....		xxx	3,412	xxx	3,588
	Explosives.....	1,000 pounds.....	1,574	319	1,613	299
	Steel mill shapes and forms.....	Short tons.....	2,773	523	2,000	341
	All other supplies.....		xxx	2,569	xxx	2,948
	Undistributed.....		xxx	1	xxx	...
	<u>Type of Operation</u>					
	Producing establishments:					
	Supplies used, total.....		xxx	<sup>2</sup> 5,705	xxx	4,847
	Explosives.....	1,000 pounds.....	2,284	448	}	(NA)
	Steel mill shapes and forms.....	Short tons.....	3,002	606		
	All other supplies.....		xxx	<sup>2</sup> 4,543		
	Undistributed.....		xxx	108		
	Underground mines, with or without mills:					
	Explosives.....	1,000 pounds.....	1,978	410	}	(NA)
	Steel mill shapes and forms.....	Short tons.....	2,965	587		
	Underground mines with mills:					
	Explosives.....	1,000 pounds.....	1,574	325	}	(NA)
	Steel mill shapes and forms.....	Short tons.....	2,842	543		
	Mills with or without mines:					
	Explosives.....	1,000 pounds.....	2,034	395	}	(NA)
	Steel mill shapes and forms.....	Short tons.....	2,952	592		
	Mills using principal milling method other than flotation:					
	Explosives.....	1,000 pounds.....	1,835	353	}	(NA)
	Steel mill shapes and forms.....	Short tons.....	2,814	542		
	Nonproducing establishments:					
	Supplies used, total.....		xxx	212	xxx	170
	Explosives.....	1,000 pounds.....	6	3	}	(NA)
	All other supplies.....		xxx	35		
	Undistributed.....		xxx	174		
1043 and 1044	PLACER GOLD AND SILVER ORES					
	United States:					
	Supplies used, total.....		xxx	<sup>2</sup> 3,431	xxx	3,721
	Explosives.....	1,000 pounds.....	457	198	1,221	241
	Steel mill shapes and forms.....	Short tons.....	2,320	678	1,042	423
	All other supplies.....		xxx	<sup>2</sup> 2,185	xxx	3,057
	Undistributed.....		xxx	370	xxx	...
	Idaho:					
	Explosives.....	1,000 pounds.....	425	188	}	(NA)
	Steel mill shapes and forms.....	Short tons.....	1,720	285		
	Other States:					
	Explosives.....	1,000 pounds.....	32	10	}	(NA)
	Steel mill shapes and forms.....	Short tons.....	600	393		
	<u>Type of Operation</u>					
	Producing establishments:					
	Supplies used, total.....		xxx	<sup>2</sup> 3,049	xxx	<sup>2</sup> 3,658
	Explosives.....	1,000 pounds.....	457	198	}	(NA)
	Steel mill shapes and forms.....	Short tons.....	2,320	678		
	All other supplies.....		xxx	<sup>2</sup> 2,142		
	Undistributed.....		xxx	31		
	Mines with mills:					
	Explosives.....	1,000 pounds.....	422	187	(NA)	(NA)
	Steel mill shapes and forms.....	Short tons.....	2,316	677		

NA Not available.

<sup>1</sup>Excludes products purchased and resold without further processing.<sup>2</sup>Includes the cost of minerals received from other establishments for milling.

Table 8.--General Statistics for Establishments in the United States Classified by Output Per Man-Hour, by Selected Types of Operations: 1958

Ind. code	Industry, type of operation, and dollars per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1021	COPPER ORES:									
	All establishments, total.....	148	27,642	143,501	20,898	41,021	106,357	266,485	457,644	44,874
	Producing establishments, total	85	27,304	141,869	20,643	40,587	105,176	267,560	457,644	32,675
	Underground mines with and without mills, total.....	42	8,322	43,721	6,597	13,387	34,803	63,262	85,260	9,952
	Less than \$2.00.....	3	5	18	4	7	15	3	7	12
	\$2.00-\$4.99.....	7	1,060	4,487	964	1,891	3,934	4,798	7,733	296
	\$5.00-\$7.99.....	7	4,605	25,530	3,834	7,595	20,785	35,682	45,763	7,648
	\$8.00-\$12.99.....	4	2,420	12,030	1,650	3,554	9,434	21,085	29,751	1,525
	Undistributed <sup>2</sup> .....	22	232	1,656	145	340	635	1,694	2,006	471
	Open-pit mines, combination open-pit and underground mines, and mills only, total	43	18,982	98,148	14,046	27,200	70,373	204,298	372,384	22,723
	Less than \$6.00.....	3	61	230	54	108	198	267	620	1
	\$6.00-\$6.99.....	1								
	\$10.00-\$10.99.....	5	4,884	23,745	3,936	7,324	18,134	44,012	65,161	5,229
	\$12.00-\$13.99.....	4	3,175	16,015	2,617	5,519	13,792	58,966	69,854	2,443
	\$14.00-\$17.99.....	5	1,495	8,022	1,231	2,372	6,224	24,180	36,163	2,444
	\$18.00-\$24.99.....	6	3,064	16,745	2,436	4,825	12,766	26,042	96,404	8,173
	\$25.00-\$34.99.....	3	4,813	24,834	3,772	7,052	19,259	50,831	104,182	4,433
	Undistributed <sup>2</sup> .....	16								
	Nonproducing establishments....	63	2,338	21,632	255	434	1,181	( <sup>3</sup> )	...	12,199
1031	LEAD AND ZINC ORES:									
	All establishments, total.....	288	11,227	54,397	8,728	16,734	39,001	73,679	120,561	8,619
	Producing establishments.....	171	10,395	49,686	8,434	16,307	38,053	74,907	120,561	7,608
	Underground mines:									
	Without mills, total.....	102	2,108	11,262	1,749	3,674	8,929	17,128	21,893	1,673
	Less than \$4.00.....	10	125	583	100	197	485	11	216	95
	\$4.00-\$4.99.....	6	485	2,402	425	876	2,046	3,625	4,874	110
	\$5.00-\$5.99.....	11	1,094	6,091	876	1,881	4,638	8,211	10,068	590
	\$6.00-\$6.99.....	9	139	764	113	253	594	897	1,594	43
	\$7.00-\$8.99.....	5	17	86	16	39	79	143	302	5
	\$9.00 and over.....	9	115	685	101	186	538	2,076	2,558	123
	Undistributed <sup>2</sup> .....	52	133	651	118	242	549	2,165	2,281	707
	With mills, total.....	41	7,729	35,788	6,284	11,823	27,359	52,928	73,435	5,347
	Less than \$4.00.....	6	259	1,031	171	315	646	560	437	408
	\$4.00-\$4.99.....	5	1,047	4,356	848	1,544	3,460	5,469	7,177	632
	\$5.00-\$5.99.....	9	4,828	22,277	3,975	7,296	16,860	29,140	38,728	3,073
	\$6.00-\$7.99.....	5	584	2,702	453	874	2,068	2,785	5,850	68
	\$10.00 and over.....	6	778	4,404	655	1,470	3,612	13,008	18,845	198
	Undistributed <sup>2</sup> .....	10	233	1,018	182	324	713	1,966	2,398	968
	Nonproducing establishments....	117	420	1,585	294	427	948	( <sup>3</sup> )	...	1,011
1042	LODE GOLD:									
	All establishments, total.....	244	2,586	12,447	2,234	4,602	10,709	22,659	29,506	1,728
	Producing establishments, total	104	2,330	11,663	2,006	4,220	10,017	22,589	29,506	790
	Less than \$2.00.....	7	16	68	16	35	68	43	24	12
	\$2.00-\$2.99.....	3								
	\$3.00-\$3.99.....	3	146	467	134	265	415	578	807	5
	\$4.00-\$4.99.....	3								
	\$5.00-\$6.99.....	3	1,974	10,136	1,689	3,567	8,682	17,248	22,039	404
	\$7.00-\$9.99.....	4								
	\$15.00-\$19.99.....	2								
	\$20.00 and over.....	2	141	850	124	286	729	4,236	5,984	101
	Undistributed <sup>2</sup> .....	77	53	142	43	67	123	484	652	268
	Nonproducing establishments....	140	256	784	228	382	692	70	...	938

<sup>1</sup>Represents value of shipments and receipts per man-hour worked by production and development workers.<sup>2</sup>Represents establishments reporting no production and development worker man-hours, or cost of contract work amounting to 30 percent or more of production and development worker wages, or number of working proprietors amounting to 30 percent or more of number of production and development workers; and for copper ores, number and payroll of employees at separately reported central offices and related facilities.<sup>3</sup>Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeds capital expenditures.<sup>4</sup>Includes figures for employees of separately reported central offices and related facilities. These were not distributed by type of operation.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Regions: 1958

Ind. code	Industry, region, and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1021	<b>COPPER ORES:</b>									
	United States, total.....	148	27,642	143,501	20,898	41,021	106,357	266,485	457,644	44,874
	Less than 0.10.....	3	5	4	4	2	3	86	57	33
	0.10-0.19.....	6	51	224	37	81	177	1,662	1,959	176
	0.20-0.29.....	7	2,678	13,681	2,200	4,802	12,039	53,556	63,551	2,031
	0.30-0.39.....	6	3,625	18,370	2,927	5,767	14,385	57,959	73,596	4,007
	0.40-0.49.....	8	1,739	8,861	1,305	2,581	6,165	21,358	38,270	2,144
	0.50-0.59.....	9	5,622	29,465	4,474	8,786	24,378	53,760	85,926	5,695
	0.60-0.69.....	8	3,983	22,044	3,410	6,647	18,070	32,243	52,846	10,265
	0.70-0.79.....	4	4,172	21,482	3,351	6,052	16,328	39,869	116,943	8,007
	0.80-0.89.....	6	2,167	10,661	1,420	2,791	7,069			
	0.90-0.99.....	4	1,065	4,430	970	1,877	3,869	4,802	7,911	290
	1.00 and over.....	14	704	3,529	604	1,300	2,961	2,430	16,528	274
	Undistributed <sup>2</sup> .....	73	1,831	10,750	196	335	913	( <sup>3</sup> )	57	11,952
1031	<b>LEAD AND ZINC ORES:</b>									
	United States, total.....	288	11,227	54,397	8,728	16,734	39,001	73,679	120,561	8,619
	Less than 0.30.....	20	657	3,583	554	1,218	2,830	14,136	26,506	355
	0.30-0.39.....	9	91	386	77	144	323	1,188	1,387	202
	0.40-0.49.....	13	521	2,829	435	912	2,254	6,644	10,134	1,357
	0.50-0.59.....	8	604	2,525	514	986	2,065	4,598	6,262	56
	0.60-0.69.....	12	680	3,300	585	1,205	2,738	4,899	7,702	79
	0.70-0.79.....	18	4,035	17,929	3,337	6,276	14,018	24,475	32,623	3,483
	0.80-0.99.....	19	1,498	7,671	1,180	2,280	5,721	9,227	12,067	808
	1.00 and over.....	43	2,346	11,621	1,781	3,319	8,196	9,877	23,485	1,520
	Undistributed <sup>2</sup> .....	146	795	4,553	265	394	856	( <sup>3</sup> )	395	759
	<b>Lead ores subindustry, total.</b>	211	6,883	33,759	5,460	10,397	24,843	48,023	75,603	4,496
	Less than 0.20.....	7	20	114	15	27	67	995	1,092	38
	0.20-0.29.....	8	561	3,123	484	1,061	2,510	11,237	21,709	271
	0.30-0.39.....	6	32	102	29	39	93	295	229	66
	0.40-0.49.....	6	306	1,870	252	542	1,507	4,482	7,690	182
	0.50-0.59.....	3	58	208	46	85	191	403	521	49
	0.60-0.69.....	7	553	2,753	484	1,010	2,298	4,052	5,246	60
	0.70-0.79.....	11	3,016	13,482	2,498	4,655	10,613	18,575	24,421	2,542
	0.80-0.89.....	9	400	1,916	303	584	1,552	2,209	3,078	302
	0.90-0.99.....	5								
	1.00 and over.....	31	1,495	7,611	1,178	2,138	5,451	6,942	11,257	763
	Undistributed <sup>2</sup> .....	118	442	2,580	171	256	561	( <sup>3</sup> )	360	223
	<b>Zinc ores subindustry, total.</b>	77	4,344	20,638	3,268	6,337	14,158	25,656	44,958	4,123
	Less than 0.30.....	5	76	346	55	130	253	1,904	3,705	46
	0.30-0.39.....	3	59	284	48	105	230	893	1,158	136
	0.40-0.49.....	7	215	959	183	370	747	2,162	2,444	1,175
	0.50-0.59.....	5	546	2,317	468	901	1,874	4,195	5,741	7
	0.60-0.69.....	5	127	547	101	195	440	847	2,456	19
	0.70-0.79.....	7	1,019	4,447	839	1,621	3,405	5,900	8,202	940
	0.80-0.99.....	5	1,098	5,755	877	1,696	4,169	7,018	8,989	506
	1.00 and over.....	12	851	4,010	603	1,181	2,745	2,935	12,228	757
	Undistributed <sup>2</sup> .....	28	353	1,973	94	138	295	( <sup>3</sup> )	35	537
	<b>West, total.....</b>	209	5,577	29,042	4,442	8,688	21,253	42,085	73,039	2,929
	Less than 0.40.....	23	510	2,890	432	945	2,258	11,567	21,623	680
	0.40-0.59.....	15	944	4,532	797	1,590	3,685	9,394	14,334	
	0.60-0.79.....	17	1,240	6,083	1,073	2,181	5,044	8,475	11,363	384
	0.80 and over.....	40	2,513	13,498	1,963	3,712	9,659	13,821	25,366	1,621
	Undistributed <sup>2</sup> .....	114	370	2,039	177	260	607	( <sup>3</sup> )	353	244
	<b>Lead ores subindustry, total.</b>	179	3,844	20,507	3,077	6,028	14,965	29,979	51,479	2,058
	Less than 0.20.....	7	20	114	15	27	67	995	1,092	38
	0.20-0.29.....	7	830	4,728	698	1,506	3,800	14,461	27,653	562
	0.30-0.39.....	5								
	0.40-0.49.....	5	1,162	5,730	1,011	2,066	4,776	7,917	10,454	368
	0.50-0.59.....	3								
	0.60-0.69.....	6	169	1,019	142	279	838	1,215	1,489	144
	0.70-0.79.....	9								
	0.80-0.89.....	7	1,344	7,026	1,064	1,926	4,976	6,501	10,443	729
	0.90-0.99.....	1								
	1.00 and over.....	26	319	1,890	147	224	508	( <sup>3</sup> )	348	217
	Undistributed <sup>2</sup> .....	103								

See footnotes at end of table.

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Regions: 1958—Continued

Ind. code	Industry, region, and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1031	LEAD AND ZINC ORES—Continued									
	Zinc ores subindustry, total.	30	1,733	8,535	1,365	2,660	6,288	12,106	21,560	871
	Less than 0.40.....	4	23	114	16	34	77	966	1,053	80
	0.40-0.49.....	2	581	2,466	500	968	1,999	4,539	6,159	
	0.50-0.59.....	5								
	0.60-0.69.....	2								
	0.80-0.89.....	2	1,084	5,806	819	1,622	4,113	6,663	14,343	764
	1.00 and over.....	5								
	Undistributed <sup>2</sup> .....	10								
1042	LODE GOLD:									
	United States, total.....	244	2,586	12,447	2,234	4,602	10,709	22,659	29,506	1,728
	Less than 0.10.....	4	8	16	7	9	13	526	318	20
	0.10-0.19.....	5	79	505	71	163	431	3,474	3,793	95
	0.20-0.29.....	4	31	94	23	40	77	339	342	40
	0.30-0.39.....	8	55	346	50	111	307	960	1,212	78
	0.40-0.49.....	5	15	72	14	30	65	160	73	187
	0.50-0.59.....	6	1,816	9,376	1,562	3,261	8,056	15,987	20,207	361
	0.60-0.69.....	8	142	594	123	264	500	911	2,291	85
	0.70-0.79.....	3	18	63	12	35	58	80	3	137
	0.80-0.89.....	3	115	391	102	213	340	439	581	54
	0.90-0.99.....	1								
	1.00 and over.....	23								
	Undistributed <sup>2</sup> .....	174	161	423	148	202	378	( <sup>3</sup> )	230	348
	Pacific, total.....	91	321	1,514	276	565	1,292	4,721	5,692	513
	Less than 0.30.....	3	124	802	111	257	689	4,175	4,776	180
	0.30-0.39.....	5								
	0.40-0.49.....	1	6	13	5	7	10	27	816	90
	0.50-0.59.....	2								
	0.60-0.69.....	5	106	451	88	190	381	674	23	147
	0.70-0.79.....	1								
	1.00 and over.....	10	36	117	29	59	105	73	77	96
	Undistributed <sup>2</sup> .....	64	49	131	43	52	107	( <sup>3</sup> )		
1043	PLACER GOLD:									
	United States, total.....	74	364	1,790	323	723	1,515	4,873	6,326	340
	0.10-0.19.....	3	100	481	91	216	428	2,858	3,559	4
	0.20-0.29.....	2								
	0.30-0.39.....	3	104	597	95	169	518	1,579	1,447	172
	0.40-0.49.....	4								
	0.50-0.59.....	2	4	6	6	6	6	11	3	15
	0.60-0.69.....	1								
	1.00 and over.....	5	130	648	111	307	517	505	1,203	6
	Undistributed <sup>2</sup> .....	54	26	58	20	25	46	( <sup>3</sup> )	114	143
1044	SILVER ORES:									
	United States, total.....	61	989	5,757	854	1,746	4,840	10,364	12,557	1,156
	Less than 0.10.....	2	7	38	6	11	28	264	239	33
	0.10-0.19.....	2								
	0.20-0.29.....	1	202	1,191	177	372	1,030	3,537	4,302	177
	0.30-0.39.....	4								
	0.40-0.49.....	4	45	263	41	78	237	579	435	381
	0.50-0.59.....	2	619	3,553	560	1,143	3,178	5,916	7,289	
	0.60-0.69.....	2								
	0.80-0.89.....	1	29	131	23	43	99	99	116	38
	1.00 and over.....	2								
	Undistributed <sup>2</sup> .....	41	87	581	47	99	268	( <sup>3</sup> )	176	527

<sup>1</sup>Note that in computing these ratios contract employment serving the establishment is excluded. The cost of contract work in the Copper Ores Industry was 15.5 percent of payroll; in the Lead and Zinc Ores Industry, 5.5 percent of payroll; in the Lode Gold Industry, 3.4 percent of payroll; in the Placer Gold Industry, 4.8 percent of payroll; and in the Silver Ores Industry, 2.7 percent of payroll.

<sup>2</sup>Represents establishments with zero or negative value added; establishments with no employees; and for number of employees and payroll, includes figures for separately reported central offices and related facilities.

<sup>3</sup>Value added is not shown since the cost of supplies, minerals received for preparation, fuels, purchased electricity, contract work, and purchased machinery installed exceeded the value of shipments and receipts and capital expenditures.



Table 10.—Value Added in Mining Per Employee by Size of Establishment for the United States: 1958

Ind. code	Industry, subindustry, and value added per employee class <sup>1</sup>	Number of —		Number of establishments with average employment of —						
		Establish- ments	Employees	0-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1021	COPPER ORES, TOTAL.....	148	27,642	110	6	3	5	7	7	10
	Less than \$3,000.....	17	81	16	1	...	...	...	...	...
	\$3,000-\$3,999.....	4	646	1	1	...	1	1	...	...
	\$4,000-\$4,999.....	8	1,096	4	1	1	1	...	1	...
	\$5,000-\$5,999.....	5	1,027	4	...	...	...	...	...	1
	\$6,000-\$6,999.....	5	3,661	2	1	...	...	...	...	2
	\$7,000-\$7,999.....	6	4,293	2	...	...	...	...	2	2
	\$8,000-\$8,999.....	3	2,610	2	...	...	...	...	...	1
	\$9,000-\$9,999.....	6	1,879	2	...	...	1	2	...	1
	\$10,000-\$12,499.....	8	3,157	4	...	...	2	1	...	1
	\$12,500-\$14,999.....	4	2,079	2	...	...	...	...	2	...
	\$15,000-\$17,499.....	5	2,318	2	...	...	...	...	2	1
	\$17,500-\$19,999.....	1	...	...	...	...	...	...	...	1
	\$20,000 and over.....	13	3,013	8	2	...	...	3	...	...
	Undistributed <sup>2</sup> .....	63	1,782	61	...	2	...	...	...	...
1031	LEAD AND ZINC ORES, TOTAL.....	288	11,227	236	17	11	13	8	2	1
	Lead ores subindustry, total.....	211	6,883	185	11	3	7	2	2	1
	Less than \$3,000.....	46	217	42	4	...	...	...	...	...
	\$3,000-\$3,999.....	14	199	12	1	...	1	...	...	...
	\$4,000-\$4,999.....	4	260	2	1	...	1	...	...	...
	\$5,000-\$5,999.....	8	1,184	5	1	...	1	...	1	...
	\$6,000-\$6,999.....	10	2,977	6	1	...	1	1	...	1
	\$7,000-\$7,999.....	7	636	4	1	1	...	...	1	...
	\$8,000-\$8,999.....	4	129	3	...	...	1	...	...	...
	\$9,000-\$9,999.....	1	...	1	...	...	...	...	...	...
	\$10,000-\$12,499.....	4	69	3	1	...	...	...	...	...
	\$12,500-\$14,999.....	2	...	2	...	...	...	...	...	...
	\$15,000-\$17,499.....	5	667	3	...	...	2	...	...	...
	\$17,500-\$19,999.....	1	...	...	...	...	...	1	...	...
	\$20,000 and over.....	11	160	9	...	2	...	...	...	...
	Undistributed <sup>2</sup> .....	94	385	93	1	...	...	...	...	...
	Zinc ores subindustry, total.....	77	4,344	51	6	8	6	6	...	...
	Less than \$3,000.....	10	...	7	1	1	1	...	...	...
	\$3,000-\$3,999.....	2	643	1	...	...	...	1	...	...
	\$4,000-\$4,999.....	7	165	5	1	...	1	...	...	...
	\$5,000-\$5,999.....	6	1,296	...	...	2	2	2	...	...
	\$6,000-\$6,999.....	6	586	1	1	2	1	1	...	...
	\$7,000-\$7,999.....	6	909	4	...	...	...	2	...	...
	\$9,000-\$9,999.....	4	199	1	2	...	1	...	...	...
	\$10,000-\$12,499.....	4	104	3	...	1	...	...	...	...
	\$12,500-\$14,999.....	2	...	2	...	...	...	...	...	...
	\$15,000-\$17,499.....	3	69	2	...	1	...	...	...	...
	\$17,500-\$19,999.....	2	...	1	...	1	...	...	...	...
	\$20,000 and over.....	2	75	2	...	...	...	...	...	...
	Undistributed <sup>2</sup> .....	23	298	22	1	...	...	...	...	...
1042	LODE GOLD, TOTAL.....	244	2,586	232	7	4	...	...	...	1
	Less than \$3,000.....	41	126	41	...	...	...	...	...	...
	\$3,000-\$3,999.....	8	171	6	...	2	...	...	...	...
	\$4,000-\$4,999.....	4	15	4	...	...	...	...	...	...
	\$5,000-\$5,999.....	4	89	2	2	...	...	...	...	...
	\$6,000-\$6,999.....	6	35	5	1	...	...	...	...	...
	\$7,000-\$7,999.....	6	84	5	...	1	...	...	...	...
	\$8,000-\$8,999.....	4	1,753	3	...	...	...	...	...	1
	\$9,000-\$9,999.....	4	28	3	1	...	...	...	...	...
	\$10,000-\$12,499.....	4	57	2	2	...	...	...	...	...
	\$12,500-\$14,999.....	4	...	4	...	...	...	...	...	...
	\$17,500-\$19,999.....	1	11	1	...	...	...	...	...	...
	\$20,000 and over.....	8	107	6	1	1	...	...	...	...
	Undistributed <sup>2</sup> .....	150	110	150	...	...	...	...	...	...
1043	PLACER GOLD, TOTAL.....	74	364	71	...	2	1	...	...	...
	Less than \$3,000.....	13	20	13	...	...	...	...	...	...
	\$3,000-\$3,999.....	3	128	2	...	...	1	...	...	...
	\$4,000-\$4,999.....	2	...	2	...	...	...	...	...	...
	\$5,000-\$5,999.....	3	12	3	...	...	...	...	...	...
	\$7,000-\$7,999.....	2	...	2	...	...	...	...	...	...
	\$9,000-\$9,999.....	1	15	1	...	...	...	...	...	...
	\$10,000-\$12,499.....	1	...	1	...	...	...	...	...	...
	\$17,500-\$19,999.....	1	...	...	1	...	...	...	...	...
	\$20,000 and over.....	3	178	2	...	1	...	...	...	...
	Undistributed <sup>2</sup> .....	45	11	45	...	...	...	...	...	...
1044	SILVER ORES, TOTAL.....	61	989	56	2	1	1	...	1	...
	Less than \$3,000.....	5	...	4	1	...	...	...	...	...
	\$4,000-\$4,999.....	1	57	1	...	...	...	...	...	...
	\$5,000-\$5,999.....	1	...	1	...	...	...	...	...	...
	\$6,000-\$6,999.....	1	9	1	...	...	...	...	...	...
	\$7,000-\$7,999.....	1	...	1	...	...	...	...	...	...
	\$9,000-\$9,999.....	3	615	1	...	1	...	...	1	...
	\$10,000-\$12,499.....	2	...	1	1	...	...	...	...	...
	\$12,500-\$14,999.....	1	33	1	...	...	...	...	...	...
	\$15,000-\$17,499.....	1	...	1	...	...	...	...	...	...
	\$17,500-\$19,999.....	2	206	1	...	...	1	...	...	...
	\$20,000 and over.....	5	8	5	...	...	...	...	...	...
	Undistributed <sup>2</sup> .....	38	61	38	...	...	...	...	...	...

<sup>1</sup>See table 9, footnote 1. <sup>2</sup>Represents establishments with no employees or with zero or negative value added in mining and, for number of employees, figures for separately reported central offices and related facilities.

Table 11.—Hourly Earnings of Production and Development Workers for Establishments with 10 or More Employees, by Divisions: 1958

Ind. code	Industry or subindustry by hourly earnings classes	Number of—		Number of establishments with 10 or more employees in—								
		Estab-lish-ments	Em-ploy-ees	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun-tain	Pacific
1021	COPPER ORES, TOTAL.....	48	127,473	...	...	6	...	1	...	...	41	...
	\$1.00-\$1.49.....	1	353	...	...	...	...	...	...	...	1	...
	\$1.50-\$1.99.....	3	...	...	...	3	...	...	...	...	...	...
	\$2.00-\$2.49.....	19	8,033	...	...	2	...	1	...	...	16	...
	\$2.50-\$2.99.....	23	...	...	...	1	...	...	...	...	22	...
	\$3.00-\$3.49.....	1	19,087	...	...	...	...	...	...	...	1	...
	\$4.00-\$4.49.....	1	...	...	...	...	...	...	...	...	1	...
1031	LEAD AND ZINC ORES, TOTAL.....	76	10,790	...	4	6	5	2	7	3	46	3
	Lead ores subindustry, total.....	41	6,583	...	...	...	4	...	...	1	34	2
	\$1.00-\$1.49.....	1	83	...	...	...	...	...	...	...	1	...
	\$1.50-\$1.99.....	2	...	...	...	...	...	...	...	...	2	...
	\$2.00-\$2.49.....	21	4,737	...	...	...	4	...	...	1	16	...
	\$2.50-\$2.99.....	11	1,524	...	...	...	...	...	...	...	10	1
	\$3.00-\$3.49.....	5	...	...	...	...	...	...	...	...	5	...
	No production or development workers...	1	239	...	...	...	...	...	...	...	...	1
	Zinc ores subindustry, total.....	35	4,207	...	4	6	1	2	7	2	12	1
	\$1.50-\$1.99.....	9	750	...	...	1	1	1	2	1	3	...
	\$2.00-\$2.49.....	19	2,474	...	4	5	...	1	5	1	3	...
	\$2.50-\$2.99.....	6	983	...	...	...	...	...	...	...	5	1
	\$3.00-\$3.49.....	1	...	...	...	...	...	...	...	...	1	...
1042	LODE GOLD, TOTAL.....	17	2,290	...	...	...	3	...	...	...	6	8
	\$1.00-\$1.49.....	1	374	...	...	...	1	...	...	...	...	...
	\$1.50-\$1.99.....	9	...	...	...	...	1	...	...	...	5	3
	\$2.00-\$2.49.....	3	51	...	...	...	...	...	...	...	1	2
	\$2.50-\$2.99.....	3	...	...	...	...	1	...	...	...	...	2
	\$4.00-\$4.49.....	1	1,865	...	...	...	...	...	...	...	...	1
1043	PLACER GOLD, TOTAL.....	3	301	...	...	...	...	...	...	...	1	2
	\$1.50-\$1.99.....	1	...	...	...	...	...	...	...	...	...	1
	\$2.00-\$2.49.....	1	301	...	...	...	...	...	...	...	...	1
	\$3.50-\$3.99.....	1	...	...	...	...	...	...	...	...	1	...
1044	SILVER ORES, TOTAL.....	9	936	...	...	...	...	...	...	...	9	...
	\$1.50-\$1.99.....	1	...	...	...	...	...	...	...	...	1	...
	\$2.50-\$2.99.....	6	936	...	...	...	...	...	...	...	6	...
	\$3.00-\$3.49.....	1	...	...	...	...	...	...	...	...	1	...
	\$3.50-\$3.99.....	1	...	...	...	...	...	...	...	...	1	...

<sup>1</sup>Includes employees at separately reported central offices and related facilities.



Table 12.—Distribution of Operating Companies by Employment Size and by  
Number of Establishments for the United States: 1958

Ind. code	Industry or subindustry by establishment count	Number of—			Number of establishments with average employment of—								
		Operat- ing com- panies	Estab- lish- ments	Emplay- ees	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1021	COPPER ORES, TOTAL.....	112	148	126,041	86	14	10	6	3	5	7	7	10
	Multiunit companies, total...	15	51	25,212	8	4	5	4	3	5	5	7	10
	1 establishment <sup>2</sup> .....	3	3	6,609	1	...	...	1	...	...	1	...	...
	2 establishments.....	7	14		3	1	2	...	1	3	...	1	3
	3 or 4 establishments.....	3	11		...	...	1	2	1	1	2	2	2
	5 or 6 establishments.....	1	5		...	...	...	1	...	...	...	1	3
	15-19 establishments.....	1	18	18,603	4	3	2	...	1	1	2	3	2
	Single unit companies.....	97	97		78	10	5	2	...	...	2	...	...
1031	LEAD AND ZINC ORES:												
	Lead ores subindustry, total...	194	211	6,883	152	18	15	11	3	7	2	2	1
	Multiunit companies, total...	24	41	6,229	12	6	3	7	1	7	2	2	1
	1 establishment <sup>2</sup> .....	16	16	2,281	6	1	...	2	...	5	1	1	...
	2 establishments.....	3	6	65	2	1	2	1	...	...	...	...	...
	3 or 4 establishments.....	4	14	3,883	3	4	...	2	1	2	...	1	1
	5 or 6 establishments.....	1	5		1	...	1	2	...	...	1	...	...
	Single unit companies.....	170	170	654	140	12	12	4	2	...	...	...	...
	Zinc ores subindustry, total...	42	77	4,344	29	13	9	6	8	6	6	...	...
	Multiunit companies, total...	16	51	4,235	10	10	5	6	6	6	6	...	...
	1 establishment <sup>2</sup> .....	10	10	881	...	2	3	1	2	1	1	...	...
	2 establishments.....	3	6	901	1	1	...	...	1	1	2	...	...
	10-14 establishments.....	3	35	2,453	9	7	2	5	5	4	3	...	...
	Single unit companies.....	26	26	109	19	3	4	...	...	...	...	...	...
1042	LODE GOLD, TOTAL.....	242	244	2,586	212	15	5	7	4	...	...	...	1
	Multiunit companies, total...	r8	r10	1,878	4	3	...	1	1	...	...	...	...
	1 establishment <sup>2</sup> .....	r6	r6	1,878	2	3	...	...	...	...	...	...	...
	2 establishments.....	r2	r4		2	...	...	1	1	...	...	...	...
	Single unit companies.....	r234	235	r708	208	12	5	6	3	...	...	...	1
1043	PLACER GOLD, TOTAL.....	73	74	364	69	2	...	...	2	1	...	...	...
	Multiunit companies, total...	4	5	222	3	...	...	...	1	1	...	...	...
	1 establishment <sup>2</sup> .....	3	3	222	2	...	...	...	1	...	...	...	...
	2 establishments.....	1	2		1	...	...	...	1	...	...	...	...
	Single unit companies.....	69	69	142	66	2	...	...	1	...	...	...	...
1044	SILVER ORES, TOTAL.....	60	61	989	51	1	4	2	1	1	...	1	...
	Multiunit companies, total...	8	9	890	3	...	2	1	1	1	...	1	...
	1 establishment <sup>2</sup> .....	7	7	890	3	...	2	...	...	1	...	1	...
	2 establishments.....	1	2		...	...	...	1	1	...	...	...	...
	Single unit companies.....	52	52	99	48	1	2	1	...	...	...	...	...

<sup>1</sup>Excludes figures for employees at separately reported central offices and related facilities.

<sup>2</sup>Represents companies having at least one establishment classified in other industries. Revised.

# Bauxite and Ferroalloy Ores, Except Vanadium

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Industry Groups 105, Bauxite and Other Aluminum Ores, and 106, Ferroalloy Ores, Except Vanadium. The separate industries included in these groups are as follows:

## S.I.C. Code and Title (1957 Edition)

- 1051—Bauxite and Other Aluminum Ores
- 1062—Manganese Ores
- 1064—Tungsten Ores
- 1069—Ferroalloy Ores, Except Vanadium, N.E.C.

### Industry 1051—Bauxite and Other Aluminum Ores

This industry represents establishments primarily engaged in mining, milling, or otherwise preparing bauxite and other aluminum ores. (Bauxite was the only aluminum ore produced in 1958.) Associated activities such as drying, calcining, activating, and sintering are also included.

### Industry 1062—Manganese Ores

This industry represents establishments primarily engaged in mining, milling, or otherwise preparing manganese ores, such as pyrolusite, rhodochrosite, psilomelane, and manganite. The mining of manganiferous iron ores valued chiefly for their iron content is classified in Industry 1011.

### Industry 1064—Tungsten Ores

This industry represents establishments primarily engaged in mining, milling, or otherwise preparing tungsten ores, such as ferberite, huebnerite, scheelite, and wolframite.

### Industry 1069—Ferroalloy Ores, Except Vanadium, N.E.C.

This industry represents establishments primarily engaged in mining, milling, or otherwise preparing ferroalloy ores, n.e.c., such as chromite, columbite, and nickel ore. Titanium ore, used sometimes for ferroalloying but principally for other purposes, is classified in Industry 1093. Separate statistics are shown in this report for two subindustries of this industry: the Chromium Ores Subindustry and the Molybdenum, Cobalt, and Other Ores Subindustry.

The total value of shipments and receipts of the Bauxite Industry in 1958 was \$18.17 million, of which primary products amounted to \$18.16 million and receipts for services \$19 thousand. The total value of shipments and receipts of the Ferroalloy Ores, Except Vanadium, Industry Group was \$112 million, of which primary products of these industries amounted to \$102 million and secondary products and services amounted to \$10 million. Of the total value of shipments for the latter group, the Manganese Ores Industry accounted for about \$39 million; the Tungsten Ores Industry for about \$14 million; and the Ferroalloy Ores, Except Vanadium, N.E.C. Industry for about \$58 million, including about \$6 million for the Chromium

Ores Subindustry and about \$52 million for the Molybdenum, Cobalt, and Other Ores Subindustry.

These figures represent gross value of shipments and receipts and some of them contain duplication due to the inclusion of the value of minerals transferred from one establishment to other establishments in the same industry for preparation. In order to eliminate this duplication, net shipment figures were derived by subtracting from gross shipments either the value of shipments of ores to preparation plants or, if the latter figure was not available, the cost of minerals received from other establishments for preparation. Thus, for the Bauxite Industry, the value of shipments of crude ore to preparation plants for treatment was \$800 thousand, or 4 percent of the gross value of shipments, yielding a value of net shipments of \$17 million. For the Manganese Ores Industry, the value of shipments of beneficiating-grade ore to preparation plants was \$5 million, or 13 percent of the gross value of shipments, yielding a net shipment value of \$34 million. For the Tungsten Ores Industry, although there were receipts of minerals for preparation, almost all of such minerals were imported. For this reason, and since all of the shipments of primary products of this industry were in the form of tungsten concentrates, no subtraction was made from the gross value of shipments to derive net value. For the Ferroalloy Ores, N.E.C., Industry, the cost of minerals received for preparation, amounting to only \$31 thousand, was subtracted from the gross value of shipments to derive the net figure of \$58 million. Separate figures for gross and net shipments are shown in tables 1 and 3 of this report.

The general statistics (employment, payrolls, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the production of secondary products, and in the performance of contract work for others. This fact should be taken into account in comparing industry statistics (tables 1-4 and 7-12) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5 which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

The Bureau of the Census statistics on primary products of the bauxite and ferroalloy ores, except vanadium, industries are, in general, comparable with statistics for similar products published by the Bureau of Mines. Differences in the statistics result primarily from differences in data collection methods, coverage, and objectives sought. The most closely comparable statistics from the two bureaus are shown in the table below. Major reasons for the differences in product statistics are:



## MINERAL INDUSTRIES—INDUSTRY STATISTICS

1. The Bureau of the Census excludes small establishments whose value of products and reported costs were less than \$500. The Bureau of Mines includes all establishments regardless of size. However, the contribution to product of such establishments is usually small.

2. The Bureau of the Census obtains information on total production and shipments of crude ore and prepared minerals from each establishment, including shipments of ores to preparation plants for concentration, usually in the same mining industry. The Bureau of the Census also calculates net shipments in order to provide a measure of the product leaving the particular mining industry. In general, the Bureau of Mines presents statistics on products as marketable shipments to consumers. For example, the Bureau of the Census statistics on manganese ores include low-grade ores shipped to United States Government purchase depots. Such shipments are excluded from the Bureau of Mines published statistics on manganese ores.

3. The Bureau of the Census classifies ores on the basis of the metal of major total value contained in the ores or concentrates produced and shipped, frequently obtaining only the total tonnage of ores mined. The Bureau of

Mines sometimes obtains more detailed product statistics. For instance, the Bureau of the Census excludes from its statistics on manganese ores and concentrates (and includes as iron ores) those classified as manganiferous iron ores valued chiefly for their iron content. The latter ores and concentrates are included in the Bureau of Mines product statistics on manganiferous ores (5 to 35 percent Mn).

4. The Bureau of the Census includes in its product statistics minerals concentrated, otherwise prepared, or sized from imported ores as well as those from domestic ores. The Bureau of Mines statistics represent production and shipments of domestic ores only. This accounts, in part, for the differences shown for manganese ores and tungsten ores.

5. The Bureau of the Census statistics on value represent reported values f.o.b. mine or plant. In some instances the Bureau of Mines estimates values for a portion of the product on the basis of unit market values obtained from other sources. This explains some of the differences for bauxite and other minerals.

6. Differences exist in establishment coverage in certain areas for the two collecting agencies.

QUANTITY AND VALUE OF MINERAL PRODUCTS AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU OF MINES FOR THE UNITED STATES: 1958

Product	Unit of measure	Bureau of the Census statistics			Bureau of Mines statistics		
		Production (Quantity)	Shipments including interplant transfers		Production (Quantity)	Shipments	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
Bauxite:							
Crude bauxite.....	1,000 long tons	1,612	1,662	15,607	1,584	(NA)	(NA)
Prepared bauxite.....	do	136	137	2,548	137	(NA)	(NA)
Net shipments.....	do	xxx	{ 1,658 2,165	{ 117,089 217,355	xxx	1,649	13,984
Manganese ores:							
Crude ores.....	do	1,395	508	17,448	(NA)	(NA)	(NA)
Net shipments.....	do	xxx	{ 1336 2460	{ 127,156 232,776	xxx	326	324,140
Tungsten ores:							
Crude ores.....	1,000 short tons	188	...	...	(NA)	(NA)	(NA)
Concentrates.....	do	6	6	13,675	(NA)	4	43,991
Chromium ores:							
Crude ores.....	do	300	}	150	(NA)	144	6,187
Concentrates.....	do	(D)					
Molybdenum concentrates..	do	36	37	49,993	521	521	50,371

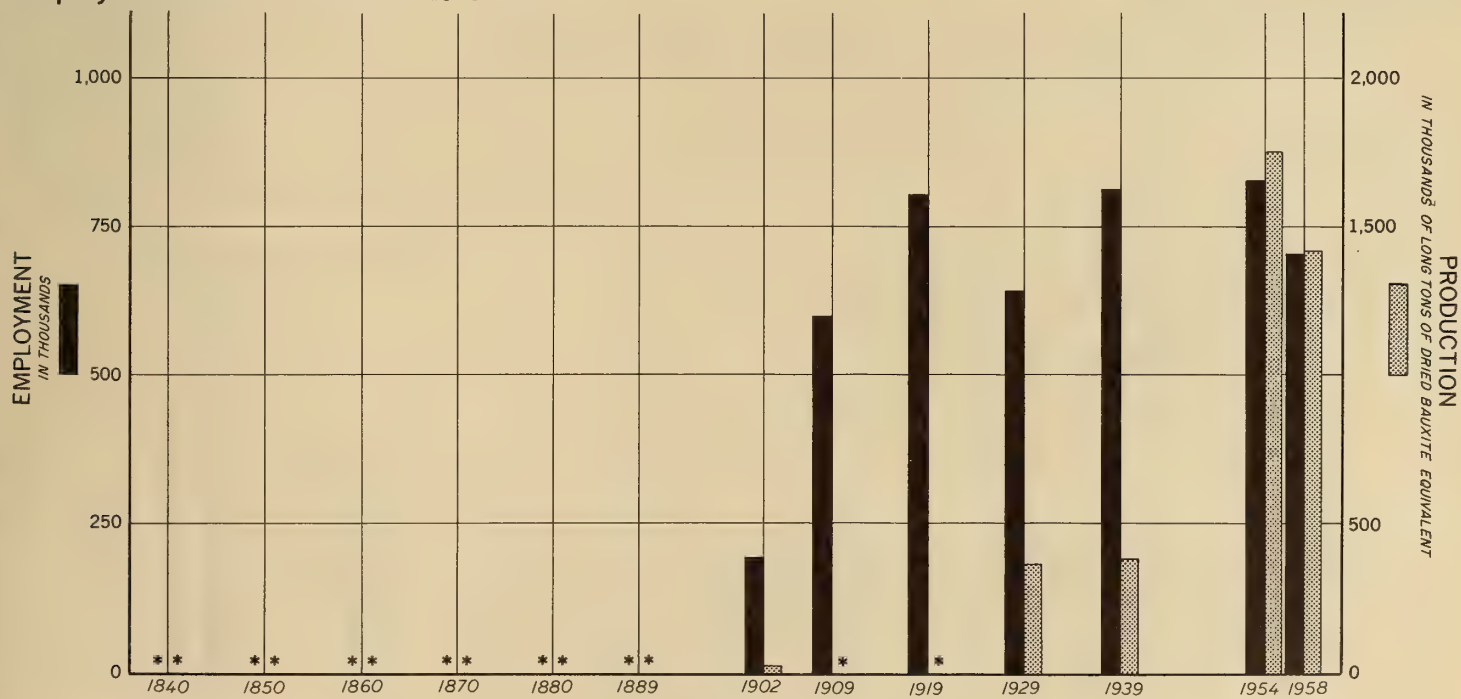
D--Withheld to avoid disclosing data for individual companies. NA--not available. <sup>1</sup>Represents gross shipments less receipts from other establishments for preparation. <sup>2</sup>Represents shipments of direct-shipping ore, concentrates to consumers, and agglomerates. <sup>3</sup>Represents manganese ore (35 percent or more manganese) and ferruginous manganese ore except in Minnesota. These shipments represent marketable ores from the consumer's standpoint; besides direct-shipping ore, they include without duplication concentrates and nodules made from domestic ores. <sup>4</sup>Represents concentrates from domestic ores. Census figures include concentrates produced in the United States from imported material. <sup>5</sup>Represents molybdenum content of concentrates.

## BAUXITE

## Distribution of Employment by State:1958



## Employment and Production:1840-1958

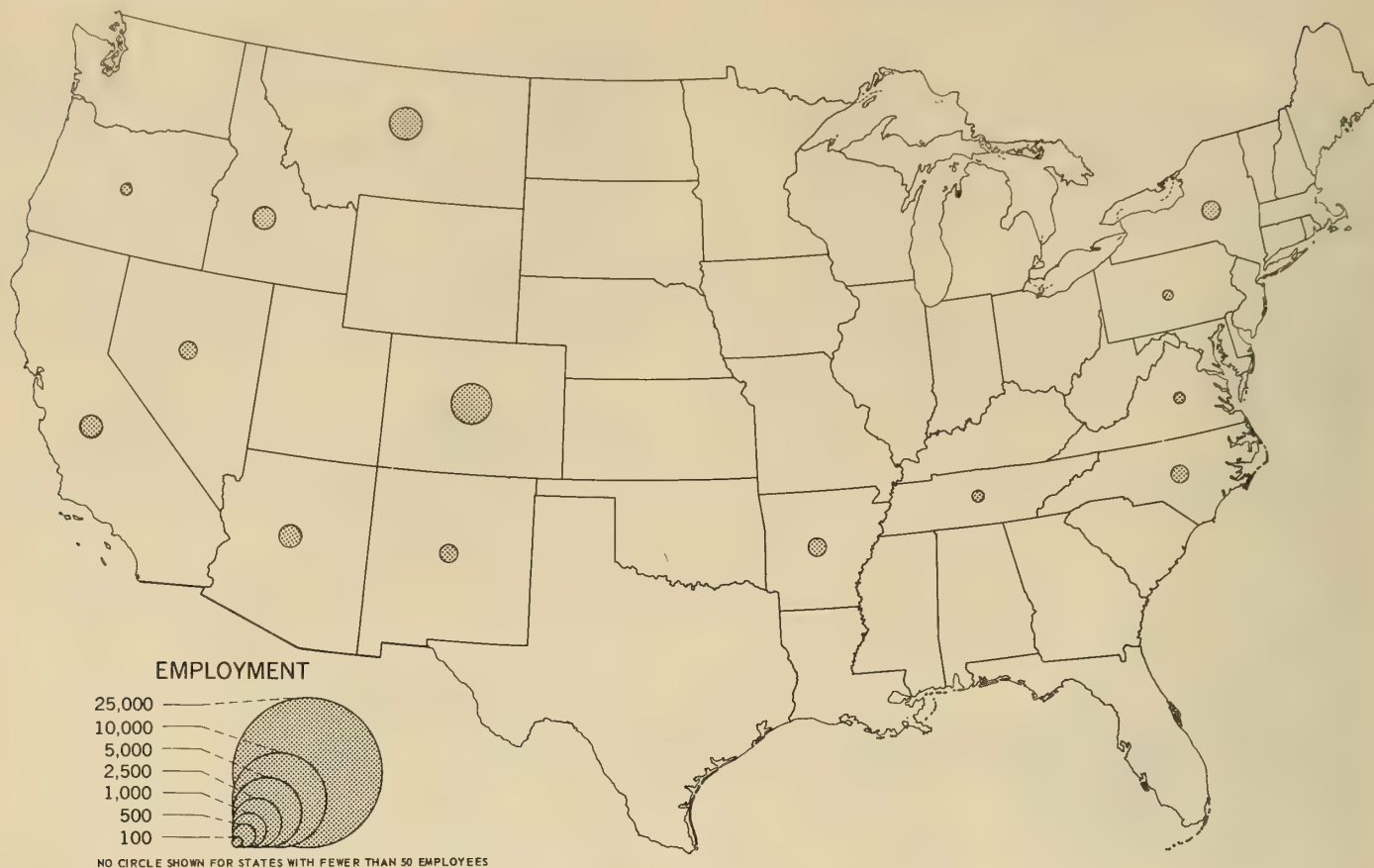


\* NOT AVAILABLE



# FERROALLOY ORES, EXCEPT VANADIUM

Distribution of Employment by State:1958



Employment:1840-1958

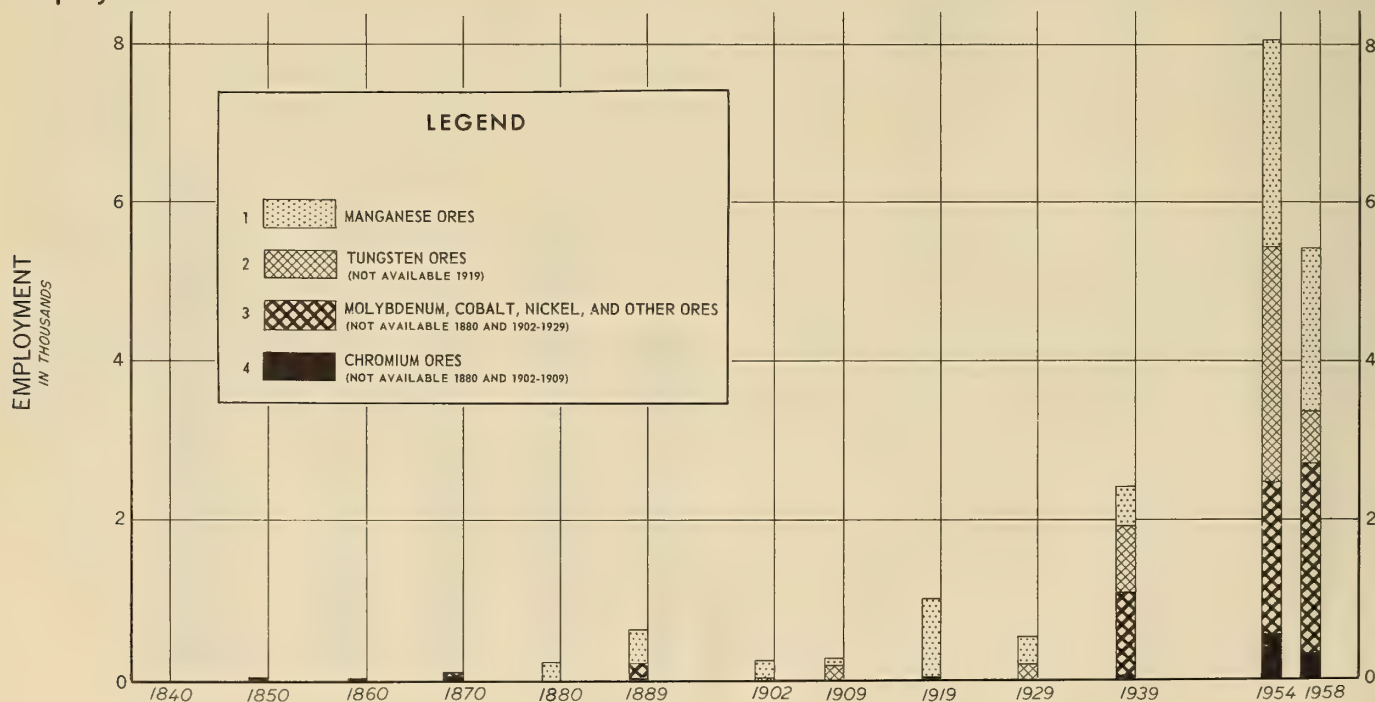


Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. I)

Ind. code	Industry and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts (\$1,000)	Value of net shipments and receipts <sup>1</sup> (\$1,000)	Quantity of net shipments of primary products <sup>2</sup> (1,000 tons)	Capital expenditures (\$1,000)
			Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		Supplies, fuels, and purchased electricity	Minerals received for preparation	Contract work	Cost of purchased machinery installed				
1051	BAUXITE:																	
	1958.....	12	29	9	705	3,606	502	905	2,290	15,430	1,158	1,066	445	1,483	18,174	17,374	1,420	1,408
	1954.....	12	25	6	852	3,581	661	1,288	2,529	12,827	1,162	1,181	1,603	356	16,819	16,029	1,766	310
	1939 <sup>3</sup> .....	10	16	(NA)	827	578	727	1,176	578	1,965	516	(NA)	46	(NA)	2,527	388	(NA)	(NA)
	1935.....	(NA)	11	(NA)	5636	5461	559	(NA)	330	1,188	357	(NA)	(NA)	(NA)	1,545	(NA)	(NA)	(NA)
	1929.....	(NA)	9	(NA)	689	790	602	(NA)	513	1,781	376	(NA)	82	(NA)	2,239	365	(NA)	(NA)
	1919.....	(NA)	10	(NA)	804	1,099	738	(NA)	942	1,748	442	...	...	(NA)	2,190	2,190	(NA)	(NA)
	1909.....	10	10	(NA)	598	230	563	(NA)	198	615	56	...	...	(NA)	671	671	(NA)	(NA)
	1902.....	7	438	(NA)	192	93	6150	(NA)	60	87	40	(NA)	1	(NA)	128	29	(NA)	(NA)
106	FERROALLOY ORES:																	
	1958.....	286	294	33	5,438	26,711	4,380	8,335	19,455	74,255	19,751	15,370	6,532	2,158	111,521	106,435	xxx	6,545
	1954.....	972	1,086	51	8,078	38,535	6,838	15,122	31,330	107,399	27,765	16,734	8,817	8,475	153,671	136,937	xxx	15,519
	1939.....	(NA)	103	(NA)	2,493	3,995	2,168	4,686	3,096	16,404	3,255	(NA)	98	(NA)	19,757	xxx	(NA)	(NA)
1062	MANGANESE ORES:																	
	1958.....	182	186	22	2,099	9,036	1,792	3,475	7,244	20,014	6,994	10,675	2,807	1,085	39,385	34,330	7460	2,190
	1954.....	319	367	24	2,604	9,292	2,266	4,293	7,643	18,118	6,285	5,382	3,573	2,304	32,398	27,016	455	3,264
	1939 <sup>8</sup> .....	26	434	(NA)	545	566	504	959	483	707	238	(NA)	...	(NA)	945	48	(NA)	(NA)
	1929 <sup>8</sup> .....	(NA)	19	(NA)	389	480	354	(NA)	392	967	211	(NA)	6	(NA)	1,184	41	(NA)	(NA)
	1919 <sup>8</sup> .....	(NA)	35	(NA)	997	1,220	909	(NA)	1,086	1,493	546	...	149	(NA)	2,188	2,188	(NA)	(NA)
	1909.....	10	10	(NA)	95	34	88	(NA)	27	22	9	...	...	(NA)	31	31	(NA)	(NA)
	1902 <sup>8</sup> .....	19	19	(NA)	212	84	6194	(NA)	75	160	18	(NA)	...	(NA)	178	16	(NA)	(NA)
	1889.....	(NA)	(NA)	(NA)	432	124	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	241	24	(NA)	(NA)
	1880.....	(NA)	46	(NA)	232	47	9222	(NA)	(NA)	87	16	(NA)	(NA)	(NA)	103	11	(NA)	(NA)
1064	TUNGSTEN ORES:																	
	1958.....	32	32	4	638	2,907	508	977	1,993	8,164	1,619	4,664	7	98	14,430	1014,430	76	122
	1954.....	500	549	20	2,987	14,758	2,635	6,327	13,148	40,744	9,981	10,891	1,885	3,562	60,737	49,846	53	6,326
	1939.....	39	453	(NA)	844	1,368	701	1,639	1,114	2,427	872	(NA)	55	(NA)	3,354	3	(NA)	(NA)
	1929 <sup>11</sup> .....	(NA)	12	(NA)	217	358	186	(NA)	297	540	190	(NA)	4	(NA)	734	1	(NA)	(NA)
	1909.....	34	34	(NA)	207	207	181	(NA)	221	412	110	...	41	(NA)	563	563	(NA)	(NA)
	1902.....	4	44	(NA)	2	1	62	(NA)	1	6	...	(NA)	...	(NA)	6	(12)	(NA)	(NA)
1069	FERROALLOY ORES, NEC:																	
	1958, total.....	75	76	7	2,701	14,768	2,080	3,883	10,218	46,077	11,138	31	3,718	975	57,706	57,675	xxx	4,233
	Chromium ores subindustry....	63	63	1	296	1,646	235	488	1,122	5,759	470	31	289	188	6,001	5,970	148	736
	Molybdenum, cobalt, and other ores sub-industry.....	12	13	6	2,405	13,122	1,845	3,395	9,096	40,318	10,668	...	3,429	787	51,705	51,705	xxx	3,497
	1954, total.....	155	170	7	2,487	14,485	1,937	4,502	10,539	48,537	11,499	461	3,359	2,609	60,536	60,075	xxx	5,929
	Chromium ores subindustry....	143	158	2	525	2,613	454	1,015	2,216	5,617	1,387	461	436	331	7,398	6,937	13154	834
	Molybdenum, cobalt, and other ores sub-industry.....	12	12	5	1,962	11,872	1,483	3,487	8,323	42,920	10,112	...	2,923	2,278	53,138	53,138	xxx	5,095
	1939, total.....	17	416	(NA)	1,104	2,060	963	2,088	1,499	13,271	2,144	(NA)	43	(NA)	15,458	xxx	(NA)	(NA)
	Chromium ores subindustry <sup>14</sup> ..	3	42	(NA)	39	54	31	59	42	27	20	(NA)	...	(NA)	47	4	(NA)	(NA)
	Molybdenum, cobalt, and other ores sub-industry.....	14	414	(NA)	1,065	2,006	932	2,029	1,457	13,244	2,124	(NA)	43	(NA)	15,411	xxx	(NA)	(NA)
	1919 (chromium ores subindustry only).....	(NA)	15	(NA)	36	50	31	(NA)	45	67	15	...	24	(NA)	106	106	(NA)	(NA)
	1889, total.....	(NA)	(NA)	(NA)	217	100	9211	(NA)	90	35	33	(NA)	2	(NA)	70	xxx	(NA)	(NA)
	Chromium ores subindustry....	(NA)	46	(NA)	30	6	930	(NA)	6	26	4	(NA)	...	(NA)	30	2	(NA)	(NA)
	Molybdenum, cobalt, and other ores sub-industry.....	(NA)	(NA)	(NA)	187	94	9181	(NA)	84	9	29	(NA)	2	(NA)	40	xxx	(NA)	(NA)
	1870 <sup>15</sup> .....	(NA)	5	(NA)	95	16	(NA)	(NA)	(NA)	40	8	(NA)	(NA)	(NA)	48	(NA)	(NA)	(NA)
	1850 (chromium ores subindustry only).....	(NA)	4	(NA)	47	10	(NA)	(NA)	(NA)	18	6	(NA)	(NA)	(NA)	24	(NA)	(NA)	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>For the Bauxite Industry in 1958 and 1954, and for the Manganese Ores Industry and the Tungsten Ores Industry in 1958, represents gross shipments and receipts less shipments to preparation plants; for all other industries and subindustries in 1958 and 1954 represents gross shipments and receipts less cost of minerals received from other establishments for preparation. For 1939 and earlier years represents value of net production and receipts.<sup>2</sup>For bauxite in 1958 and 1954, and for manganese ores and tungsten ores in 1958, represents gross shipments less shipments to preparation plants; for all other products in 1958 and 1954 represents gross shipments less tonnage of minerals received from other establishments for preparation. For bauxite and manganese ores, represents long tons; for tungsten ores and chromium ores, represents short tons. For bauxite, represents dried bauxite equivalent.<sup>3</sup>Excludes statistics for two nonproducing mines. Figures for these bauxite operations were combined in 1939 with the figures for two nonproducing manganese ores mines and one chromite mine. For the five nonproducing operations combined, employment averaged 21 for that year and principal expenses amounted to \$66 thousand.



## MINERAL INDUSTRIES—INDUSTRY STATISTICS

Footnotes for Table 1—MIC-10D—Continued

- <sup>4</sup>Represents number of mines.  
<sup>5</sup>Excludes figures for employees at central offices maintained independently of mine offices.  
<sup>6</sup>Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.  
<sup>7</sup>Includes shipments by establishments classified in other industries.  
<sup>8</sup>Excludes nonproducing operations for which separate figures are not available, as follows: 1939, 2 mines; 1929, 3 establishments; 1919, 2 establishments; and 1902, 3 mines. It is not clear whether data for nonproducing operations in years prior to 1902 were included in the statistics shown for those years.  
<sup>9</sup>Represents the average number employed during the time the mines were active.  
<sup>10</sup>All primary products of the Tungsten Ores Industry shipped by establishments classified in that industry were shipped in the form of concentrates. It is presumed that most of the tungsten ores received by plants in the industry for concentration were imported.  
<sup>11</sup>Excludes 10 nonproducing establishments for which separate figures are not available.  
<sup>12</sup>Less than 500 tons.  
<sup>13</sup>Includes a small quantity of chromium concentrates shipped by establishments not classified in the Chromium Ores Subindustry.  
<sup>14</sup>Excludes data for one nonproducing chromium ores mine. Except for number of operating companies, number of mines, and quantity of product, includes data for one antimony mine.  
<sup>15</sup>For 1860, only one establishment was reported in the Chromium Ores Subindustry.

Table 2.—General Statistics by Regions, States, and Type of Operation: 1958 and 1954

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries by State see table 2 of the corresponding Chapter of 1954 Census of Mineral Industries, Vol. I)

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of net shipments of primary products <sup>2</sup>	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1051	BAUXITE, TOTAL.....	29	9	705	3,606	502	905	2,290	15,430	4,152	18,174	1,420	1,408	852	12,827
	<u>Region and State</u>														
	West South Central (Arkansas)	18	8	632	3,381	447	813	2,182	15,023	3,607	17,241	1,361	1,389	806	12,383
	Other regions.....	11	1	73	225	55	92	108	407	545	933	59	19	46	444
	<u>Type of Operation</u>														
	Mines only <sup>3</sup> .....	21	6	566	3,072	400	713	1,930	14,395	1,398	15,608	1,259	185	698	11,262
	Mines with preparation plants and preparation plants only.	8	3	139	534	102	192	360	1,035	2,754	2,566	161	1,223	154	1,565
	By principal preparation method:														
	Drying.....	5	2	81	247	60	120	183	398	830	1,191	96	37	79	605
	Calcining and activating.	3	1	58	287	42	72	177	637	1,924	1,375	65	1,186	75	960
1062	MANGANESE ORES, TOTAL....	186	22	2,099	9,036	1,792	3,475	7,244	20,014	21,561	39,385	4,460	2,190	<sup>5</sup> 2,604	18,118
	<u>Region and State</u>														
	Northeast, North Central, and South.....	43	7	532	1,611	454	843	1,274	4,019	6,395	9,945	80	469	660	3,483
	East South Central (Tennessee).....	9	1	121	422	101	218	322	613	459	992	6	80	152	794
	West South Central(Arkansas)	19	4	239	552	206	366	491	1,478	302	1,643	21	137	145	881
	Mountain.....	123	15	1,504	7,113	1,284	2,514	5,704	14,307	14,716	27,718	(D)	1,305	1,826	13,513
	Montana.....	28	4	767	4,047	663	1,333	3,345	4,843	6,214	10,749	(D)	308	1,050	4,957
	Arizona.....	63	8	378	1,432	335	580	1,222	4,031	4,021	7,275	140	777	201	2,519
	Nevada.....	4	1	180	1,130	134	320	731	3,684	3,994	7,654	<sup>4</sup> 116	24	331	4,220
	Pacific.....	20	...	63	312	54	118	266	1,688	450	1,722	(D)	416	118	1,122
	<u>Type of Operation</u>														
	Producing establishments, total.....	169	22	2,059	8,937	1,762	3,437	7,181	20,083	21,397	39,385	460	2,095	2,536	18,020
	Mines only:														
	Open-pit <sup>6</sup> .....	80	3	246	591	209	331	513	2,601	1,169	3,116	42	654	163	1,949
	Underground.....	24	4	667	3,298	585	1,164	2,788	5,381	1,454	6,678	34	157	913	5,660
	Mines with preparation plants:														
	Open-pit.....	38	6	466	2,180	367	776	1,519	6,378	5,705	11,298	215	785	789	6,819
	Combination open-pit and underground.....	4	2	155	384	140	233	332	1,087	140	1,012	10	215	163	820
	Underground.....	13	4	295	1,285	264	521	1,114	2,084	2,840	4,751	61	170	179	1,542
	Preparation plants only....	10	3	230	1,199	197	412	915	2,552	10,089	12,527	98	114	329	1,230
	Underground mines with and without preparation plants, by principal method of mining (included above):														
	Open-stopping.....	9	1	115	619	102	199	512	1,754	2,230	3,892	45	92	69	993
	Block caving, sublevel caving, and other.....	28	7	847	3,964	747	1,486	3,390	5,711	2,064	7,540	50	235	1,023	6,209

See footnotes on next page.

Table 2.—General Statistics by Regions, States, and Type of Operation: 1958 and 1954—Continued

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries by State see table 2 of the corresponding Chapter of 1954 Census of Mineral Industries, Vol. 1)

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958										1954			
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of net shipments of primary products <sup>2</sup>	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll	Number	Man-hours	Wages							
					(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(1,000 tons)	(\$1,000)			(\$1,000)
1064	Producing establishments—Continued														
	Preparation plants with and without mines, by principal preparation method (included above):														
	Log washing.....	13	2	177	464	166	293	421	1,414	239	1,421	15	232	206	994
	Heavy density separation	5	4	159	793	138	254	653	1,871	2,761	4,374	106	258	207	1,480
	Agglomeration and other..	47	9	810	3,791	664	1,395	2,806	8,816	15,774	23,796	263	794	1,047	7,937
	Nonproducing establishments..	17	...	40	99	30	38	63	(7)	164	...	...	95	50	98
	TUNGSTEN ORES, TOTAL.....	32	4	638	2,907	508	977	1,993	8,164	6,388	14,430	46	122	2,987	40,744
	Type of Operation														
	Producing establishments.....	8	3	511	2,330	453	896	1,799	8,186	6,265	14,430	46	21	2,942	40,694
	Nonproducing establishments..	24	1	127	577	55	81	194	(7)	123	...	...	101	45	50
1069	FERROALLOY ORES, NEC, TOTAL.....	76	7	2,701	14,768	2,080	3,883	10,218	46,077	15,862	57,706	xxx	4,233	52,487	48,537
	Chromium ores subindustry....	63	1	296	1,646	235	488	1,122	5,759	978	6,001	148	736	525	5,617
	Molybdenum, cobalt, and other ores subindustry.....	13	6	2,405	13,122	1,845	3,395	9,096	40,318	14,884	51,705	xxx	3,497	1,962	42,920
	Region														
	Mountain.....	12	5	2,209	11,901	1,775	3,274	8,590	36,874	13,194	46,325	xxx	3,743	(NA)	(NA)
	Type of Operation														
	Producing establishments, total.....	64	6	2,648	14,528	2,030	3,786	9,992	45,767	15,655	57,706	xxx	3,716	2,294	48,391
	Open-pit mines and combination open-pit and underground mines with and without preparation plant.....	44	3	528	2,908	413	927	2,225	13,076	4,097	16,510	xxx	663	169	2,061
	Underground mines, total...	17	3	2,113	11,597	1,611	2,847	7,747	32,641	11,525	41,135	xxx	3,031	2,117	46,228
	Mines only <sup>3</sup> .....	7	...	10	35	8	16	33	244	14	246	3	12	53	299
Mines with preparation plant.....	10	3	2,103	11,562	1,603	2,831	7,714	32,397	11,511	40,889	xxx	3,019	2,064	45,929	
Preparation plants only <sup>3</sup> ...	3	...	7	23	6	12	20	50	33	61	91	22	8	102	
Nonproducing establishments..	12	1	53	240	50	97	226	310	207	...	...	517	43	146	

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>General statistics for some States are not shown separately in this table in order to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such States are shown below for 1958, with the number of establishments in each State (and in parentheses the number of employees or employment size range):

SIC 1051, Bauxite: Georgia, 9 (20-49); and Alabama, 2 (20-49).

SIC 1062, Manganese Ores: Pennsylvania, 2 (60, including employees of separately reported central offices and related facilities in New York); Missouri, 1 (0-4); Maryland, 1 (0-4); Virginia, 9 (106); West Virginia, 1 (0-4); Georgia, 1 (0-4); Colorado, 1 (0-4); New Mexico, 23 (176); Utah, 4 (0-4); Oregon, 1 (0-4); and California, 19 (50-99).

SIC 1064, Tungsten Ores: New York, 1 (100-249); Pennsylvania, 1 (5-9); North Carolina 1 (100-249); Montana, 1 (10-19); Idaho, 1 (0-4); Wyoming, 1 (0-4); Colorado, 1 (20-49, including employees of separately reported central offices and related facilities); Arizona, 2 (5-9); Utah, 2 (0-4); Nevada, 10 (85); Washington, 1 (0-4); Oregon, 1 (0-4); and California, 9 (32, including employees of separately reported central offices and related facilities); In addition one nonproducing establishment was reported in Alaska with capital expenditures of between \$10 thousand and \$20 thousand.

SIC 1069, Ferroalloy Ores NEC: South Dakota, 1 (100-250); Montana, 3 (100-249); Idaho, 4 (377); Wyoming, 1 (0-4); Colorado, 3 (1,579, including separately reported central offices and related facilities in New York); New Mexico, 1 (20-49); Washington, 1 (0-4); Oregon, 23 (50-99); and California, 39 (307). In addition 2 nonproducing establishments were reported in Alaska with capital expenditures between \$200,000 and \$400,000 for deposits exploration and development of nickel and nickel-copper.

<sup>2</sup>See table 1, footnote 2.<sup>3</sup>For 1958, represents 16 open-pit mines, three underground mines, and one mine reporting both open-pit and underground methods, and one non-producing mine. For 1954, represents 12 open-pit mines, two underground mines, and two combination open-pit and underground mines.<sup>4</sup>Includes shipments by establishments classified in other industries.<sup>5</sup>Includes figures for employees at central offices and related facilities not classified by type of operation.<sup>6</sup>Includes figures for combination open-pit and underground mines.<sup>7</sup>Not shown since the cost of supplies, minerals received for preparation, fuels, purchased electricity, contract work, and purchased machinery installed exceeds the value of shipments and receipts and capital expenditures.<sup>8</sup>For 1958 represents chromium ores subindustry only.<sup>9</sup>Represents shipment of chromium concentrates.



Table 3.—Detailed Statistics for Industries, Selected Areas,

Item	1051--Bauxite			106-- Ferro- alloy ores	1062--Manganese ores				
	United States, all operations	West South Central (Arkansas)	Mines only <sup>1</sup>		United States, all operations	Selected areas			
						Mountain	Montana	Arizona	Nevada
1 Number of establishments, total.....	29	18	21	294	186	123	28	63	4
2 With 0-19 employees.....	20	10	15	261	164	108	24	55	3
3 With 20-99 employees.....	7	6	4	25	20	13	3	8	...
4 With 100 employees and over.....	2	2	2	8	2	2	1	...	...
5 Including mines.....	23	13	21	277	176	119	27	61	4
6 Including preparation plants.....	8	6	...	112	68	36	6	18	1
7 Net shipments of primary products <sup>2</sup> .....1,000 tons..	1,420	1,361	1,259	xxx	<sup>3</sup> 460	(D)	(D)	140	<sup>3</sup> 116
8 Value of shipments and receipts.....\$1,000..	18,174	17,241	15,608	111,521	<sup>4</sup> 39,385	27,718	10,749	7,275	7,654
9 Minerals transferred to other establishments for preparation.....do..	800	624	800	5,086	5,055	27,718	10,749	555	...
10 Net shipments and receipts, total.....do..	17,374	16,617	14,808	106,435	34,330			6,720	...
11 Primary products.....do..	17,355	16,599	14,807	96,810	34,330			6,707	7,654
12 Secondary products and services.....do..	19	18	1	9,625				13	
13 Value added in mining.....do..	15,430	15,023	14,395	74,255	20,014	14,307	4,843	4,031	3,684
14 Number of persons engaged, total.....	712	634	572	5,776	2,308	1,666	799	474	185
15 Production and development workers (average for the year).....	502	447	400	4,380	<sup>7</sup> 1,792	1,284	663	335	134
16 March.....	544	488	446	4,711	1,554	1,132	591	285	136
17 May.....	466	415	367	4,693	1,743	1,239	641	328	133
18 August.....	499	434	392	4,270	1,903	1,354	712	338	136
19 November.....	495	435	392	3,835	1,954	1,413	717	392	131
20 Other employees.....	203	185	166	1,058	307	220	104	43	46
21 Proprietors and firm members.....	7	2	6	338	209	162	32	96	5
22 Performing manual labor.....	6	2	6	206	128	96	26	53	4
23 Man-hours worked by production and development workers, total.....1,000..	905	813	713	8,335	3,475	2,514	1,333	580	320
24 At mines, total.....do..	713	663	713	5,773	2,406	1,780	1,119	398	(D)
25 Underground.....do..	238	238	238	3,616	1,159	1,009	714	143	320
26 Open-pit.....do..	153	103	153	953	690	277	19	181	
27 Surface.....do..	322	322	322	1,204	557	494	386	74	
28 At preparation plants.....do..	192	150	...	2,562	1,069	734	214	182	
29 Man-hours spent on development and exploration work (included above).....do..	24	12	14	343	88	61	11	36	5
30 Principal expenses designated below, total.....\$1,000..	6,275	5,520	4,192	68,364	29,512	21,035	10,090	4,908	5,124
31 Wages of production and develop- ment workers.....do..	2,290	2,182	1,930	19,455	7,244	5,704	3,345	1,222	731
32 Salaries of all other employees.....do..	1,316	1,199	1,142	7,256	1,792	1,409	702	210	399
33 Minerals received for preparation.....do..	1,066	1,474	...	15,370	10,675	9,934	5,235	1,957	3,994
34 Supplies.....do..	728		644	15,817	5,216			187	
35 Purchased fuel.....do..	258		208	1,671	1,101			872	
36 Purchased electricity.....do..	172	167	127	2,263	677	564	269	27	
37 Contract work.....do..	445	290	246	6,532	2,807	2,552	333	1,305	
38 Purchased machinery installed.....do..	1,483	1,468	278	2,158	1,085	794	171	545	...
39 Capital expenditures, total.....do..	1,408	1,389	185	6,545	2,190	1,305	308	777	24
40 Development and exploration of mineral property.....do..	24	127	123	1,303	469	217	36	129	24
41 Preparation plant and other construction.....do..	107							71	47
42 New machinery and equipment.....do..	1,247		1,233	53	2,094	1,113	723	129	503
43 Used plant and equipment.....do..	30	29	9	493	355	201	72	98	...
44 Energy used.....million kwh equivalent..	151	123	64	922	582	492	233	53	171
45 Coal.....1,000 short tons..	(NA)	(NA)	(NA)	8	8	8	1	...	7
46 Fuel oil.....1,000 barrels..				65	65	58	2	9	47
47 Gas.....million cu. ft..				670	670	(D)	(D)	...	...
48 Other fuels and undistri- buted <sup>5</sup> .....\$1,000..	258	208	103	1,020	450	301	10	146	6
49 Electric energy purchased.....million kwh..	9	9	7	260	91	81	43	1	35
50 Electric energy generated and used.....do..	...	...	...	8	(D)	...	...	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.

T Revised.

NA Not available.

<sup>1</sup>See table 2, footnote 3.<sup>2</sup>See table 1, footnote 2.<sup>3</sup>Includes shipments by establishments classified in other industries.<sup>4</sup>Custom plants operating in the Manganese Ores Industry received \$1,821 thousand for preparation of manganese ores on a custom or toll basis. These receipts are not included in the total value of shipments and receipts in order to avoid duplication since the value of custom concentrates shipped is already included in the total value of shipments.

## and Selected Types of Operation: 1958

1062--Manganese ores--Continued			1064-- Tungsten ores	1069--Ferroalloy ores, nec							
Selected types of producing operations				United States, all operations	Chromium ores subindustry	Molybdenum, cobalt, and other ores subindustry	Mountain	Selected types of producing mines with or without plants			
Underground mines without preparation plants	Open-pit mines with preparation plants	Preparation plants only						Open-pit and combination open-pit and underground	Underground		
24	38	10	32	76	63	13	12	44	17	1	
20	32	7	28	69	62	7	7	41	14	2	
3	5	3	2	3	...	3	2	2	...	3	
1	1	...	2	4	1	3	3	1	3	4	
24	38	...	28	73	60	13	12	44	17	5	
...	38	10	18	26	21	5	5	12	10	6	
34	215	98	36	xxx	148	xxx	xxx	xxx	xxx	7	
6,678	11,298	12,527	14,430	57,706	6,001	51,705	46,325	16,510	41,135	8	
		...	( <sup>5</sup> )	<sup>6</sup> 31	<sup>6</sup> 31	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	9	
6,678	11,298	{	12,527	57,675	5,970	51,705	46,325	16,510	41,135	10	
			12,527	14,430	57,675	{	5,970	51,705	46,325	16,510	11
					...				41,135	12	
5,381	6,378	2,552	8,164	46,077	5,759	40,318	36,874	13,076	32,641	13	
704	519	232	657	2,811	403	2,408	2,212	583	2,157	14	
585	367	197	508	2,080	235	1,845	1,775	413	1,611	15	
546	370	116	745	2,412	276	2,136	2,065	498	1,854	16	
531	358	225	722	2,228	287	1,941	1,865	481	1,694	17	
606	378	233	392	1,975	195	1,780	1,696	418	1,501	18	
665	374	214	185	1,696	177	1,519	1,476	253	1,387	19	
82	99	33	130	621	61	560	434	115	502	20	
37	53	2	19	110	107	3	3	55	44	21	
16	27	2	9	69	66	3	3	46	16	22	
1,164	776	412	977	3,883	488	3,395	3,274	927	2,847	23	
1,164	311	...	516	2,851	384	2,467	2,426	689	2,065	24	
805	...	...	388	2,069	223	1,846	1,855	334	1,647	25	
...	271	...	22	241	31	210	}	240	...	26	
359	40	...	106	541	130	411		571	115	418	27
...	465	412	461	1,032	104	928		848	238	782	28
6	23	2	113	142	16	126	118	46	11	29	
4,698	7,388	11,238	9,197	29,655	2,436	27,219	24,462	6,790	22,394	30	
2,788	1,519	915	1,993	10,218	1,122	9,096	8,590	2,225	7,747	31	
510	661	284	914	4,550	524	4,026	3,311	683	3,850	32	
...	52	9,171	4,664	31	...	...	...	...	...	33	
857	2,890	528	1,385	9,216	293	8,923	7,516	1,630	7,540	34	
70	553	170	17	553	81	472	399	}	274	35	
111	272	152	217	1,369	96	1,273	1,218		409	1,215	36
362	1,441	18	7	3,718	289	3,429	3,428		1,843	1,768	37
54	497	50	98	975	188	787	633	215	728	38	
157	785	114	122	4,233	736	3,497	3,743	663	3,031	39	
48	76	4	17	817	65	752	743	}	13	40	
19	81	46	32	2,370	399	1,971	2,305		473	2,228	41
78	559	54	56	925	158	767	664		136	763	42
12	69	10	17	121	114	7	31		54	27	43
61	220	206	25	315	25	<sup>r</sup> 290	258	(D)	218	44	
...	7	( <sup>8</sup> )	}	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	45	
( <sup>8</sup> )	58	2								46	
(D)	...	(D)								47	
39	124	15								48	
17	36	26	20	149	1	148	138	14	136	49	
(D)	(D)	(D)	...	(D)	(D)	(D)	(D)	(D)	...	50	

<sup>5</sup>Separate figures were not requested for transfers for preparation for tungsten, molybdenum, cobalt, nickel, columbium, and tantalum ores. In general, only concentrates of these metals were reported shipped in 1958 and it is presumed that no transfers of these commodities were made for preparation. Minerals received for preparation in the Tungsten Ores Industry represented primarily imported ores.

<sup>6</sup>Represents the cost of minerals received for preparation. Separate information on shipments of chromium ores for preparation was not obtained.

<sup>7</sup>Figures for the number of production and development workers for all months were collected for this industry. The totals for the United States for the months not shown above are: January, 1,618; February, 1,544; April, 1,672; June, 1,767; July, 1,849; September, 1,869; October, 1,884; and December, 1,866.

<sup>8</sup>Less than one-half of the unit of measure specified.

<sup>9</sup>The quantity and cost of individual fuels were not obtained for the Bauxite, Tungsten Ores, and Ferroalloy Ores, NEC Industries. For the Manganese Ores Industry the undistributed fuels costs were approximately \$265 thousand.



Table 4.—Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left.)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of--								
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees
1051	BAUXITE:										
	Number of establishments.....	29	15	2	3	7	...	2	...	...	...
	All employees:										
	Number.....	705	21	<u>77</u>	(D)	<u>607</u>	...	(D)	...	...	...
	Payroll.....\$1,000..	3,606	62	<u>362</u>	(D)	<u>3,182</u>	...	(D)	...	...	...
	Production and develop- ment workers:										
	Number.....	502	14	<u>50</u>	(D)	<u>438</u>	...	(D)	...	...	...
	Man-hours.....1,000..	905	18	<u>81</u>	(D)	<u>806</u>	...	(D)	...	...	...
	Wages.....\$1,000..	2,290	35	<u>174</u>	(D)	<u>2,081</u>	...	(D)	...	...	...
	Value added in mining.....do..	15,430	681	<u>429</u>	(D)	<u>17,320</u>	...	(D)	...	...	...
	Value of shipments and receipts.....do..	18,174	811	<u>1,231</u>	(D)	<u>16,132</u>	...	(D)	...	...	...
	Capital expenditures.....do..	1,408	...	<u>1,180</u>	(D)	<u>228</u>	...	(D)	...	...	...
	Number of producing estab- lishments, by type of operation, total.....	28	14	2	3	7	...	2	...	...	...
	Mines only:										
	Open-pit.....	16	13	1	...	1	...	1	...	...	...
	Combination open-pit and underground.....	1	...	...	...	...	...	1	...	...	...
	Underground.....	24	14	5	1	3	...	...	...	1	...
	Open-pit mines with preparation plants.....	2	...	...	1	1	...	...	...	...	...
	Preparation plants only.....	6	1	1	2	2	...	...	...	...	...
1062	MANGANESE ORES:										
	Number of establishments.....	186	122	<u>122</u>	20	<u>113</u>	7	1	...	1	...
	All employees:										
	Number.....	2,099	134	141	279	359	<u>1,186</u>	(D)	...	(D)	...
	Payroll.....\$1,000..	9,036	380	532	929	1,198	<u>5,997</u>	(D)	...	(D)	...
	Production and develop- ment workers:										
	Number.....	1,792	126	114	236	304	<u>1,012</u>	(D)	...	(D)	...
	Man-hours.....1,000..	3,475	196	217	446	540	<u>2,076</u>	(D)	...	(D)	...
	Wages.....\$1,000..	7,244	347	445	739	991	<u>4,722</u>	(D)	...	(D)	...
	Value added in mining.....do..	20,014	2,749	1,870	2,609	3,249	<u>9,537</u>	(D)	...	(D)	...
	Value of shipments and receipts.....do..	39,385	3,393	2,186	4,648	7,611	<u>21,547</u>	(D)	...	...	...
	Capital expenditures.....do..	2,190	924	164	592	268	<u>242</u>	...	(D)	...	...
	Number of producing estab- lishments, by type of operation, total.....	169	108	<u>120</u>	19	<u>113</u>	7	1	...	1	...
	Mines only:										
	Open-pit.....	77	63	5	6	3	...	...	...	...	...
	Combination open-pit and underground.....	3	2	...	1	...	...	...	...	...	...
	Underground.....	24	14	5	1	3	...	...	...	1	...
	Mines with preparation plants:										
	Open-pit.....	38	20	<u>16</u>	6	<u>15</u>	...	1	...	...	...
	Combination open-pit and underground.....	4	...	...	2	...	2	...	...	...	...
	Underground.....	13	6	2	1	1	3	...	...	...	...
	Preparation plants only.....	10	3	2	2	1	2	...	...	...	...
1064	TUNGSTEN ORES:										
	Number of establishments.....	32	23	4	1	2	...	2	...	...	...
	All employees:										
	Number.....	638	<u>104</u>	(D)	<u>534</u>	(D)	...	(D)	...	...	...
	Payroll.....\$1,000..	2,907	<u>2,907</u>	(D)	(D)	(D)	...	(D)	...	...	...
	Production and develop- ment workers:										
	Number.....	508	<u>508</u>	(D)	(D)	(D)	...	(D)	...	...	...
	Man-hours.....1,000..	977	<u>977</u>	(D)	(D)	(D)	...	(D)	...	...	...
	Wages.....\$1,000..	1,993	<u>1,993</u>	(D)	(D)	(D)	...	(D)	...	...	...
	Value added in mining.....do..	8,164	<u>8,164</u>	(D)	(D)	(D)	...	(D)	...	...	...
	Value of shipments and receipts.....do..	14,430	<u>14,430</u>	(D)	...	(D)	...	(D)	...	...	...
	Capital expenditures.....do..	122	<u>122</u>	(D)	(D)	...	...	(D)	...	...	...
	Number of producing estab- lishments, by type of operation, total.....	8	4	1	...	1	...	2	...	...	...
	Mines with preparation plants:										
	Open-pit.....	2	2	...	...	...	...	...	...	...	...
	Combination open-pit and underground.....	1	...	...	...	1	...	...	...	...	...
	Underground.....	2	1	...	...	...	...	1	...	...	...
	Preparation plants only.....	3	1	1	...	...	...	1	...	...	...

See footnotes at end of table.

Table 4.—Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958--Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of--								
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees
1069	FERROALLOY ORES, NEC:										
	Number of establishments.....	76	63	5	1	1	2	2	1	...	1
	All employees:										
	Number.....	2,701	51	<u>24</u>	<u>195</u>	(D)	(D)	<u>2,421</u>	(D)	...	(D)
	Payroll.....\$1,000..	14,768	179	<u>1,233</u>	(D)	(D)	(D)	<u>13,356</u>	(D)	...	(D)
	Production and develop- ment workers:										
	Number.....	2,080	45	<u>198</u>	(D)	(D)	(D)	<u>1,837</u>	(D)	...	(D)
	Man-hours.....1,000..	3,883	86	<u>414</u>	(D)	(D)	(D)	<u>3,383</u>	(D)	...	(D)
	Wages.....\$1,000..	10,218	168	<u>956</u>	(D)	(D)	(D)	<u>9,094</u>	(D)	...	(D)
	Value added in mining.....do..	46,077	853	<u>7,954</u>	(D)	(D)	(D)	<u>37,270</u>	(D)	...	(D)
	Value of shipments and receipts.....do..	57,706	748	<u>8,838</u>	(D)	...	(D)	<u>48,120</u>	(D)	...	(D)
	Capital expenditures.....do..	4,233	356	<u>500</u>	(D)	(D)	(D)	<u>3,377</u>	(D)	...	(D)
	Chromium ores subindustry:										
	Number of establishments.....	63	56	5	1	...	...	1	...	...	...
	All employees:										
	Number.....	296	40	<u>256</u>	(D)	...	...	(D)	...	...	...
	Payroll.....\$1,000..	1,646	129	<u>1,517</u>	(D)	...	...	(D)	...	...	...
	Production and develop- ment workers:										
	Number.....	235	35	<u>200</u>	(D)	...	...	(D)	...	...	...
	Man-hours.....1,000..	488	66	<u>422</u>	(D)	...	...	(D)	...	...	...
	Wages.....\$1,000..	1,122	120	<u>1,002</u>	(D)	...	...	(D)	...	...	...
	Value added in mining.....do..	5,759	687	<u>5,072</u>	(D)	...	...	(D)	...	...	...
	Value of shipments and receipts.....do..	6,001	748	<u>5,253</u>	(D)	...	...	(D)	...	...	...
	Capital expenditures.....do..	736	135	<u>601</u>	(D)	...	...	(D)	...	...	...
	Molybdenum, cobalt, and other ores subindustry:										
	Number of establishments.....	13	7	...	...	1	2	1	1	...	1
	All employees:										
	Number.....	2,405	11	...	...	<u>2,394</u>	(D)	(D)	(D)	...	(D)
	Payroll.....\$1,000..	13,122	50	...	...	<u>13,072</u>	(D)	(D)	(D)	...	(D)
	Production and develop- ment workers:										
	Number.....	1,845	10	...	...	<u>1,835</u>	(D)	(D)	(D)	...	(D)
	Man-hours.....1,000..	3,395	20	...	...	<u>3,375</u>	(D)	(D)	(D)	...	(D)
	Wages.....\$1,000..	9,096	48	...	...	<u>9,048</u>	(D)	(D)	(D)	...	(D)
	Value added in mining.....do..	40,318	166	...	...	<u>40,152</u>	(D)	(D)	(D)	...	(D)
	Value of shipments and receipts.....do..	51,705	...	...	...	<u>51,705</u>	(D)	(D)	(D)	...	(D)
	Capital expenditures.....do..	3,497	221	...	...	<u>3,276</u>	(D)	(D)	(D)	...	(D)
	Number of producing estab- lishments by type of operation:										
	Chromium ores sub- industry:										
	Producing estab- lishments, total.....	59	52	5	1	...	...	1	...	...	...
	Mines only:										
	Open-pit.....	27	26	1	...	...	...	...	...	...	...
	Combination open-pit and underground.....	4	3	1	...	...	...	...	...	...	...
	Underground.....	7	7	...	...	...	...	...	...	...	...
	Mines with preparation plants:										
	Open-pit.....	8	6	1	1	...	...	...	...	...	...
	Combination open-pit and underground.....	2	2	...	...	...	...	...	...	...	...
	Underground.....	8	6	1	...	...	...	1	...	...	...
	Preparation plants only.....	3	2	1	...	...	...	...	...	...	...
	Molybdenum, cobalt, and other ores subindustry:										
	Producing estab- lishments, total.....	5	...	...	...	1	2	1	1	...	...
	Mines only (open-pit).....	1	...	...	...	...	1	...	...	...	...
	Mines with preparation plants:										
	Open-pit.....	1	...	...	...	...	1	...	...	...	...
	Combination open-pit and underground.....	1	...	...	...	...	...	...	1	...	...
	Underground.....	2	...	...	...	...	...	1	...	...	1

<sup>1</sup>Includes figures for separately reported central offices and related facilities not distributed by size.<sup>2</sup>Revised.



Table 5.--Industry-Product Analysis, Summary of Industry Shipments and Receipts and Net Shipments of Primary Products for the United States: 1958 and 1954

Ind. code	Industry and year	Value of shipments and receipts of establishments classified in the industry					Value of net shipments of primary products of the industry shipped by establishments in all industries		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total (produced in all industries)	Produced in this industry	Produced in other industries
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1051	Bauxite.....1958..	18,174	18,155	...	19	...	17,355	17,355	...
	1954..	16,819	16,736	57	26	...	15,946	15,946	...
1062	Manganese ores.....1958..	39,385	(D)	(D)	(D)	...	32,776	(D)	(D)
	1954..	32,398	31,298	(D)	(D)	...	26,155	25,916	239
1064	Tungsten ores.....1958..	14,430	(D)	(D)	(D)	...	13,675	(D)	(D)
	1954..	60,737	60,222	423	8	84	51,941	49,331	2,610
1069	Ferroalloy ores, nec.....1958..	57,706	(D)	(D)	...	...	67,868	(D)	(D)
	1954..	60,556	56,714	3,822	...	...	(NA)	56,253	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

Table 6A.--Primary Products of the Bauxite and Ferroalloy Ores, Except Vanadium, Industries Produced in All Industries in the United States: 1958 and 1954

Item	1958				1954			
	Production	Shipments including interplant transfers or receipts			Production	Shipments including interplant transfers or receipts		
		Quantity	Dried bauxite equivalent	Value		Quantity	Dried bauxite equivalent	Value
		(1,000 long tons)	(1,000 long tons)	(1,000 long tons)		(\$1,000)	(1,000 long tons)	(1,000 long tons)
BAUXITE								
United States:								
Production and shipments:								
Crude bauxite mined.....	1,612	xxx	xxx	xxx	2,353	xxx	xxx	xxx
Crude bauxite shipped to preparation plants..	xxx	<sup>1</sup> 143	117	800	xxx	<sup>2</sup> 119	<sup>2</sup> 101	<sup>2</sup> 790
Crude bauxite shipped to consumers.....	xxx	<sup>1</sup> 1,519	1,259	14,807	xxx	1,889	1,607	13,190
Prepared bauxite, total.....	136	137	161	2,548	147	147	159	2,756
Dried.....	92	93	93	1,047	122	122	122	1,442
Calcined and activated.....	44	44	68	1,501	25	25	37	1,314
Bauxite prepared:								
Mined and prepared at same establishment....	(D)	xxx	xxx	xxx	67	xxx	xxx	xxx
Received from other establishments for preparation.....	xxx	141	(NA)	1,066	xxx	135	(NA)	1,181

See footnotes at end of table.

Table 6A.--Primary Products of the Bauxite and Ferroalloy Ores, Except Vanadium, Industries  
Produced in All Industries in the United States: 1958 and 1954--Continued

Item	1958			1954		
	Production  (1,000 long tons)	Shipments including interplant transfers or receipts		Production  (1,000 long tons)	Shipments including interplant transfers or receipts	
		Quantity (1,000 long tons)	Value (\$1,000)		Quantity (1,000 long tons)	Value (\$1,000)
MANGANESE ORES <sup>3</sup>						
United States:						
Production and shipments:						
Crude manganese ores, total.....	41,395	508	17,448	1,574	( <sup>5</sup> )	( <sup>5</sup> )
Direct-shipping ores.....	4139	139	12,393	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Beneficiating-grade ores.....	1,300	369	5,055	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Manganese concentrates and agglomerates, total <sup>6</sup> .....	333	321	20,383	51,056	5843	531,537
Containing less than 35 percent manganese.....	9	9	286	5604	5625	511,963
Containing 35 percent or more manganese.....	324	312	20,097	5452	5218	519,574
Manganese ores and concentrates prepared:						
Produced and prepared at same establishment.....	1,061	xxx	xxx	863	xxx	xxx
Received from other establishments for preparation.....	xxx	493	10,675	xxx	375	5,382
Northeast, North Central, and South:						
Production and shipments:						
Crude manganese ores, total.....	4192	62	7,909	451	( <sup>5</sup> )	( <sup>5</sup> )
Direct-shipping ores.....	462	62	7,909	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Beneficiating-grade ores.....	174	...	...	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Manganese concentrates and agglomerates.....	18	18	2,022	5102	594	55,076
Manganese ores and concentrates produced and prepared at same establishment	7220	xxx	xxx	7364	xxx	xxx
East South Central (Tennessee):						
Production and shipments:						
Crude manganese ores.....	14	6	992	158	(NA)	(NA)
Manganese concentrates.....	5			12	11	1,011
Manganese ores and concentrates produced and prepared at same establishment.....	715	xxx	xxx	(NA)	xxx	xxx
West South Central (Arkansas):						
Production and shipments:						
Crude manganese ores, total.....	49	14	1,213	(NA)	(NA)	(NA)
Direct-shipping ores.....	14	14	1,213	(NA)	(NA)	(NA)
Beneficiating-grade ores.....	35	...	...	(NA)	(NA)	(NA)
Manganese concentrates.....	7	7	428	(NA)	(NA)	(NA)
Manganese ores produced and prepared at same establishment.....	35	xxx	xxx	(NA)	(NA)	(NA)
Mountain:						
Production and shipments:						
Crude manganese ores.....	1,138	422	9,091	1,067	( <sup>5</sup> )	( <sup>5</sup> )
Direct-shipping ores.....	75	422	9,091	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Beneficiating-grade ores.....	1,063			( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Manganese concentrates and agglomerates, total.....	297	285	17,087	5912	5707	524,977
Containing less than 35 percent manganese.....	9	9	284	5523	5547	510,800
Containing 35 percent or more manganese.....	288	276	16,803	5389	5160	514,177
Manganese ores and concentrates prepared:						
Produced and prepared at same establishment.....	782	xxx	xxx	529	xxx	xxx
Received from other establishments for preparation.....	xxx	394	5,258	xxx	322	4,492
Montana:						
Production and shipments:						
Crude manganese ores.....	375	349	5,036	341	( <sup>5</sup> )	( <sup>5</sup> )
Manganese concentrates and agglomerates.....	65	52	4,176	5492	5398	59,867
Manganese ores and concentrates produced and prepared at same establishment	25	xxx	xxx	7322	xxx	xxx
Arizona:						
Production and shipments:						
Crude manganese ores, total.....	378	54	2,382	187	( <sup>5</sup> )	( <sup>5</sup> )
Direct-shipping ores.....	27	27	1,827	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Beneficiating-grade ores.....	351	27	555	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Manganese concentrates.....	113	113	4,880	5134	5133	54,029
Manganese ores and concentrates produced and prepared at same establishment	7413	xxx	xxx	(NA)	(NA)	(NA)
Nevada:						
Crude manganese direct-shipping ores and manganese agglomerates.....	115	116	7,663	5214	5105	58,659
Pacific:						
Production and shipments:						
Crude manganese ores, total.....	65	24	448	56	( <sup>5</sup> )	( <sup>5</sup> )
Direct-shipping ores.....	2	24	448	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Beneficiating-grade ores.....	63			( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Manganese concentrates.....	18	18	1,274	542	542	51,484
Manganese ores and concentrates produced and prepared at same establishment	7158	xxx	xxx	723	xxx	xxx

See footnotes at end of table.





Table 6B.--Shipments of Selected Primary Products of the Bauxite and Ferroalloy Ores,  
Except Vanadium, Industries Distributed by Value Per Ton: 1958

Product and average value per ton f.o.b. mine or plant <sup>1</sup>	Quantity shipped		Value of shipments	
	Tons <sup>2</sup> (1,000)	Percent of total quantity	Value (\$1,000)	Percent of total value
BAUXITE				
Prepared bauxite, total.....	137	100.0	2,548	100.0
Less than \$8.85.....	76	55.5	1,782	69.9
\$8.85 and over.....	61	44.5	766	30.1
MANGANESE ORES <sup>3</sup>				
Direct-shipping crude manganese ores, total.....	139	100.0	12,393	100.0
Less than \$23.00.....	3	2.2	38	0.4
\$23.00-\$25.99.....	11	7.9	266	2.2
\$26.00-\$37.99.....	15	10.8	479	3.8
\$38.00-\$54.49.....	12	8.6	625	5.0
\$54.50-\$69.49.....	10	7.2	623	5.0
\$69.50-\$78.49.....	6	4.3	457	3.7
\$78.50-\$88.49.....	15	10.8	1,204	9.7
\$88.50-\$99.99.....	24	17.3	2,185	17.6
\$100.00 and over.....	43	30.9	6,516	52.6
Manganese concentrates and agglomerates containing 35 percent or more manganese, total.....	312	100.0	20,097	100.0
Less than \$38.00.....	62	19.9	513	2.5
\$38.00-\$69.49.....	126	40.4	8,151	40.6
\$69.50-\$78.49.....	9	2.9	655	3.3
\$78.50-\$88.49.....	54	17.3	4,528	22.5
\$88.50-\$99.99.....	57	18.2	5,281	26.3
\$100.00 and over.....	4	1.3	969	4.8
CHROMIUM ORES				
Chromium ores and concentrates, total.....	150	100.0	6,001	100.0
Less than \$29.49.....	1	0.7	14	0.3
\$29.50-\$88.49.....	144	95.9	5,516	91.9
\$88.50-\$99.99.....	1	0.7	72	1.2
\$100.00-\$111.99.....	3	2.0	320	5.3
\$112.00 and over.....	1	0.7	79	1.3

<sup>1</sup>The "average values" are based on the entire shipments of the specified product by each establishment. Thus they are representative of varied average prices among establishments but not of variations within an establishment.

<sup>2</sup>Represents long tons for bauxite and manganese ores and short tons for chromium ores.

<sup>3</sup>Excludes manganiferous iron ores valued chiefly for their iron content. Such ores are included in the primary products of the Iron Ores Industry.



Table 7.--Supplies Used in the Bauxite and Ferroalloy Ores, Except Vanadium, Industries,  
by Regions and States and by Type of Operation: 1958 and 1954

(For the quantity and cost of minerals received for preparation see table 6A. For the quantity and total cost of purchased fuels and electricity used, see table 3)

Industry, supplies used, region, State, and type of operation	Unit of measure	1958		1954	
		Quantity	Cost (\$1,000)	Quantity	Cost (\$1,000)
INDUSTRY 1051—BAUXITE					
United States					
Supplies used, total.....	.....	xxx	728	xxx	789
Explosives.....	1,000 pounds.....	r450	74	749	148
Steel mill shapes and forms.....	Short tons.....	77	26	43	5
All other supplies.....	.....	xxx	628	xxx	636
INDUSTRY 1062—MANGANESE ORES					
United States					
Supplies used, total.....	.....	xxx	5,216	xxx	5,087
Explosives.....	1,000 pounds.....	583	133	1,208	281
Steel mill shapes and forms.....	Short tons.....	649	154	1,033	172
All other supplies.....	.....	xxx	14,929	xxx	4,634
Region and State					
Mountain:					
Explosives.....	1,000 pounds.....	583	133	1,060	253
Steel mill shapes and forms.....	Short tons.....	374	99	809	136
Montana:					
Explosives.....	1,000 pounds.....	486	107	531	148
Steel mill shapes and forms.....	Short tons.....	215	64	408	67
Type of operation					
Underground mines without preparation plants:					
Supplies used, total.....	.....	xxx	857	xxx	1,000
Explosives.....	1,000 pounds.....	461	105	(NA)	(NA)
Steel mill shapes and forms.....	Short tons.....	177	49	(NA)	(NA)
All other supplies.....	.....	xxx	1703	xxx	(NA)
INDUSTRY 1064—TUNGSTEN ORES					
United States					
Supplies used, total.....	.....	xxx	1,385	xxx	28,295
Explosives.....	1,000 pounds.....	242	48	4,038	765
Steel mill shapes and forms.....	Short tons.....	139	31	2,490	475
All other supplies.....	.....	xxx	11,306	xxx	27,055
INDUSTRY 1069—FERROALLOY ORES, NEC.					
United States					
Supplies used, total.....	.....	xxx	9,216	xxx	9,853
Explosives.....	1,000 pounds.....	2,935	640	6,025	1,157
Steel mill shapes and forms.....	Short tons.....	693	577	6,357	855
All other supplies.....	.....	xxx	17,999	xxx	7,841

NA Not available. <sup>1</sup>Revised.

<sup>2</sup>Includes costs undistributed by type amounting to \$632 thousand for the Manganese Ores Industry for the United States, \$41 thousand for underground mines without preparation plants in the Manganese Ores Industry, \$40 thousand for the Tungsten Ores Industry, and \$91 thousand for the Ferroalloy Ores, NEC, Industry.

<sup>3</sup>Includes the cost of materials purchased for resale without further processing.

Table 8.—General Statistics for Establishments in the United States Classified by Output Per Man-Hour, by Selected Types of Operation: 1958

Ind. code	Industry, type of operation, and output per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1051	BAUXITE:									
	All establishments, total.....	29	705	3,606	502	905	2,290	15,430	18,174	1,408
	Less than 0.40.....	2	181	739	154	268	591	1,700	2,769	73
	0.40-0.59.....	1								
	0.80-0.99.....	3								
	1.00-1.19.....	2	418	2,410	295	552	1,562	12,963	14,057	1,298
	1.60-1.79.....	1								
	1.80-1.99.....	1								
	2.00-2.99.....	2								
	3.00-3.99.....	1								
	4.00-4.99.....	1								
	6.00-6.99.....	1	106	457	53	85	137	767	1,348	37
	Unclassified <sup>2</sup> .....	14								
1062	MANGANESE ORES:									
	All establishments, total.....	186	2,099	9,036	1,792	3,475	7,244	20,014	39,385	2,190
	Producing establishments:									
	Mines only:									
	Open-pit and combination open-pit and underground, total.....	80	246	591	209	331	513	2,601	3,116	654
	Less than 0.02.....	4	28	56	21	37	41	136	152	2
	0.02-0.04.....	4	40	102	31	72	85	223	249	54
	0.05-0.09.....	8	65	130	59	78	124	433	459	97
	0.10 and over.....	7	70	212	57	95	177	780	1,102	89
	Unclassified <sup>2</sup> .....	57	43	91	41	49	86	1,029	1,154	412
	Underground, total.....	24	667	3,298	585	1,164	2,788	5,381	6,678	157
	Less than 0.20.....	5	45	122	39	60	110	366	355	41
	0.20 and over.....	5	568	2,985	501	1,025	2,518	3,779	4,854	31
	Unclassified <sup>2</sup> .....	14	54	191	45	79	160	1,236	1,469	85
	Mines with preparation plants:									
	Open-pit, total.....	38	466	2,180	367	776	1,519	6,378	11,298	785
	Less than 0.03.....	4	55	129	48	86	115	149	167	166
	0.05-0.09.....	5	55	195	48	94	164	1,141	1,136	13
	0.10 and over.....	5	60	275	51	103	214	604	866	48
	Unclassified <sup>2</sup> .....	24	296	1,581	220	493	1,026	4,484	9,129	558
	Underground and combination open-pit and underground, total.....	17	450	1,669	404	754	1,446	3,171	5,766	385
	Less than 0.05.....	4	165	409	156	297	377	507	527	60
	0.05 and over.....	6	186	737	161	286	639	1,210	1,808	67
	Unclassified <sup>2</sup> .....	7	99	523	87	171	430	1,454	3,431	258
	Preparation plants only, total.....	10	230	1,199	197	412	915	2,552	12,527	114
	Less than 0.20.....	3	68	286	61	138	234	465	888	31
	0.20 and over.....	4	158	895	132	264	663	2,025	11,111	61
	Unclassified <sup>2</sup> .....	3	4	18	4	10	18	62	528	22
1064	TUNGSTEN ORES:									
	All establishments, total.....	32	638	2,907	508	977	1,993	8,164	14,430	122
	Producing establishments, total.....	8	511	2,330	453	896	1,799	8,186	14,430	21
	Less than 0.005.....	3	511	2,330	453	896	1,799	8,186	14,430	21
	0.005-0.049.....	3								
	Unclassified <sup>2</sup> .....	2								

<sup>1</sup>For bauxite, represents long tons of dried bauxite equivalent shipped per man-hour worked by production and development workers. For manganese ores, represents long tons of manganese ores, concentrates, and agglomerates shipped per man-hour. For tungsten ores, represents short tons of tungsten concentrates shipped per man-hour.

<sup>2</sup>Represents nonproducing establishments (for the bauxite industry only) and establishments with no production or development worker man-hours, with man-hours spent on development and exploration work amounting to 30 percent or more of total man-hours, with cost of contract work amounting to 30 percent or more of production and development worker wages, or with number of working proprietors amounting to 30 percent or more of the number of production and development workers. Also includes figures for number of employees and payrolls of employees at separately reported central offices and related facilities.



## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Divisions: 1958

Ind. code	Industry, division, and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1051	BAUXITE:									
	United States, total.....	29	705	3,606	502	905	2,290	15,430	18,174	1,408
	Less than 0.10.....	5	10	16	7	9	13	461	499	...
	0.10 to 0.29.....	8	449	2,514	326	596	1,652	13,510	14,770	202
	0.30-0.59.....	4	84	353	73	110	306	928	1,325	33
	0.60 and over.....	7	120	439	96	190	319	517	1,563	1,173
	Undistributed <sup>2</sup> .....	5	42	284	...	...	...	14	17	...
1062	MANGANESE ORES:									
	United States, total.....	186	2,099	9,036	1,792	3,475	7,244	20,014	39,385	2,190
	Less than 0.10.....	9	21	75	19	28	66	1,714	1,668	158
	0.10-0.19.....	13	81	244	71	104	196	1,566	3,299	138
	0.20-0.29.....	24	271	838	231	388	654	3,075	6,616	489
	0.30-0.39.....	15	322	1,679	240	527	1,163	5,226	9,721	264
	0.40-0.49.....	10	170	823	153	295	704	1,933	4,293	124
	0.50-0.59.....	10	144	444	138	252	427	826	1,276	55
	0.60-0.69.....	9	64	148	53	78	126	225	362	86
	0.70-0.79.....	6	612	3,143	535	1,126	2,643	3,429	4,709	242
	0.90-0.99.....	2								
	1.00 and over.....	16	361	1,495	310	617	1,169	1,280	6,373	337
	Undistributed <sup>2</sup> .....	72	53	147	42	60	96	740	1,068	297
	West South Central, total.....	19	239	552	206	366	491	1,478	1,643	137
	Less than 0.20.....	4	12	16	10	11	14	119	108	29
	0.20-0.29.....	3	75	155	65	87	136	585	656	12
	0.30-0.49.....	4	42	142	32	82	121	369	394	45
	0.50-0.59.....	1	106	234	96	184	216	346	450	31
	0.90-0.99.....	1								
	1.00 and over.....	3	4	5	3	2	4	59	35	20
	Undistributed <sup>2</sup> .....	3								
	Mountain, total.....	123	1,504	7,113	1,284	2,514	5,704	14,307	27,718	1,305
	Less than 0.10.....	5	9	16	9	9	16	923	916	104
	0.10-0.19.....	7	49	141	44	62	113	946	1,161	58
	0.20-0.29.....	12	91	249	80	142	219	944	986	177
	0.30-0.39.....	9	266	1,445	201	424	981	4,552	8,920	210
	0.40-0.49.....	6	129	622	117	209	550	1,489	3,618	110
	0.50-0.59.....	6	75	258	70	123	244	485	823	41
	0.60-0.69.....	8	591	3,004	513	1,044	2,534	3,272	4,374	139
	0.70-0.79.....	4								
	0.90-0.99.....	1	270	1,286	236	475	1,007	1,132	6,102	278
	1.00 and over.....	9								
	Undistributed <sup>2</sup> .....	56	24	92	14	26	40	564	818	188
	Pacific, total.....	20	63	312	54	118	266	1,688	1,722	416
	Less than 0.20.....	4	15	68	12	22	56	800	760	104
	0.20-0.29.....	3	45	238	39	93	204	804	858	232
	0.30-0.39.....	2								
	0.50-0.59.....	3	3	6	3	3	6	84	104	80
	Undistributed <sup>2</sup> .....	8								
1064	TUNGSTEN ORES:									
	United States, total.....	32	638	2,907	508	977	1,993	8,164	14,430	122
	Less than 0.20.....	2	638	2,907	508	977	1,993	8,164	14,430	122
	0.40-0.79.....	2								
	1.00 and over.....	4	24	...	...	...	...	...	...	...
	Undistributed <sup>2</sup> .....	24								
1069	FERROALLOY ORES, NEC:									
	United States, total.....	76	2,701	14,768	2,080	3,883	10,218	46,077	57,706	4,233
	Less than 0.30.....	13	183	1,067	152	340	799	8,394	9,289	250
	0.30-0.59.....	9	2,311	12,677	1,846	3,408	9,140	37,381	48,236	3,421
	0.80-0.99.....	3	11	38	11	18	38	45	22	192
	1.00 and over.....	8	56	234	63	100	221	167	29	312
	Undistributed <sup>2</sup> .....	43	140	752	8	17	20	90	130	58

<sup>1</sup>Note that in computing these ratios contract employment serving the establishment is excluded. The cost of contract work expressed as a percent of payroll for 1958 was: for Bauxite, 12 percent; for Manganese ores, 31 percent; for Tungsten ores, 0.2 percent; and for Ferroalloy ores, nec, 25 percent.

<sup>2</sup>Represents establishments with zero or negative value added, establishments with no employees and, for number of employees and payroll, includes figures for separately reported central offices and related facilities.

Table 10.—Value Added in Mining Per Employee by Size of Establishment for the United States: 1958

Ind. code	Industry and value added per employee class <sup>1</sup>	Number of--		Number of establishments with average employment of--						
		Establish- ments	Employees	0-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1051	BAUXITE, TOTAL.....	29	705	20	7	...	2	...	...	...
	Less than \$3,000.....	4	65	2	2	...	...	...	...	...
	\$3,000-\$4,999.....	3	65	1	2	...	...	...	...	...
	\$5,000-\$9,999.....	3	26	3	...	...	...	...	...	...
	\$10,000-\$14,999.....	3	66	1	2	...	...	...	...	...
	\$15,000-\$19,999.....	4	199	2	1	...	1	...	...	...
	\$20,000 and over.....	8	284	7	...	...	1	...	...	...
	No employees.....	4	...	4	...	...	...	...	...	...
1062	MANGANESE ORES, TOTAL.....	186	2,099	164	113	7	1	...	1	...
	Less than \$3,000.....	24	249	23	...	1	...	...	...	...
	\$3,000-\$3,999.....	7	68	7	...	...	...	...	...	...
	\$4,000-\$4,999.....	9	237	13	14	2	...	...	...	...
	\$5,000-\$5,999.....	6	677	3	...	2	...	...	1	...
	\$6,000-\$6,999.....	7	71	6	...	1	...	...	...	...
	\$7,000-\$7,999.....	5	44	4	1	...	...	...	...	...
	\$8,000-\$8,999.....	10	114	7	3	...	...	...	...	...
	\$9,000-\$9,999.....	5	53	4	1	...	...	...	...	...
	\$10,000-\$12,499.....	10	119	7	3	...	...	...	...	...
	\$12,500-\$14,999.....	5	94	4	...	1	...	...	...	...
	\$15,000-\$17,499.....	6	1	6	...	...	...	...	...	...
	\$17,500-\$19,999.....	4	19	4	...	...	...	...	...	...
	\$20,000 and over.....	20	304	18	1	...	1	...	...	...
	Undistributed <sup>2</sup> .....	68	34	68	...	...	...	...	...	...
1064	TUNGSTEN ORES, TOTAL.....	32	638	28	2	...	2	...	...	...
	Less than \$3,000.....	15	68	14	1	...	...	...	...	...
	\$3,000-\$3,999.....	1	...	1	...	...	...	...	...	...
	\$4,000-\$4,999.....	1	...	1	...	...	...	...	...	...
	\$5,000-\$5,999.....	1	460	...	...	...	1	...	...	...
	\$20,000 and over.....	2	...	1	...	...	1	...	...	...
	Undistributed <sup>2</sup> .....	12	110	11	1	...	...	...	...	...
1069	FERROALLOY ORES, NEC, TOTAL.....	76	2,701	69	1	2	2	1	...	1
	Less than \$3,000.....	8	26	8	...	...	...	...	...	...
	\$3,000-\$4,999.....	3	42	2	1	...	...	...	...	...
	\$5,000-\$7,999.....	3	...	3	...	...	...	...	...	...
	\$9,000-\$9,999.....	1	13	1	...	...	...	...	...	...
	\$10,000-\$12,499.....	5	253	4	...	...	1	...	...	...
	\$15,000-\$17,499.....	3	...	2	...	...	...	...	...	1
	\$17,500-\$19,999.....	2	2,052	...	...	...	1	1	...	...
	\$20,000 and over.....	9	179	7	...	2	...	...	...	...
	Undistributed <sup>2</sup> .....	42	136	42	...	...	...	...	...	...

<sup>1</sup>See table 9, footnote 1.      <sup>2</sup>Revised.<sup>2</sup>Represents establishments with no employees or negative value added in mining and, for number of employees, figures for separately reported central offices and related facilities.



## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 11.—Hourly Earnings of Production and Development Workers for Establishments with 10 or more Employees, by Divisions: 1958

Ind. code	Industry by hourly earnings classes	Number of—		Number of establishments with 10 or more employees in—								
		Establishments	Employees	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
1051	BAUXITE, TOTAL.....	12	(D)	...	...	...	...	1	2	9	...	...
	Less than \$1.50.....	4	81	...	...	...	...	1	2	1	...	...
	\$1.50-\$2.49.....	3	(D)	...	...	...	...	...	...	3	...	...
	\$2.50 and over.....	5	467	...	...	...	...	...	...	5	...	...
1062	MANGANESE ORES, TOTAL.....	41	1,824	...	2	...	...	5	5	6	21	2
	Less than \$1.50.....	12	370	...	...	...	...	1	1	4	6	...
	\$1.50-\$1.99.....	16	341	...	...	...	...	4	4	1	6	1
	\$2.00-\$2.49.....	7	374	2	2	...	...	...	...	1	4	...
	\$2.50 and over.....	6	739	...	...	...	...	...	...	...	5	1
1064	TUNGSTEN ORES, TOTAL.....	5	534	...	1	...	...	1	...	...	3	...
	Less than \$2.00.....	1	534	...	...	...	...	1	...	...	...	...
	\$2.00-\$2.49.....	2		...	1	...	...	...	...	...	1	...
	\$3.00 and over.....	2		...	...	...	...	...	...	...	2	...
1069	FERROALLOY ORES, NEC, TOTAL.....	8	2,616	...	...	...	...	...	...	...	5	3
	Less than \$2.00.....	1	(D)	...	...	...	...	...	...	...	...	1
	\$2.00-\$2.49.....	5	733	...	...	...	...	...	...	...	4	1
	\$2.50-\$2.99.....	2	(D)	...	...	...	...	...	...	...	1	1

D Withheld to avoid disclosing figures for individual companies.

Table 12.—Distribution of Operating Companies by Employment Size and by Number of Establishments for the United States: 1958

Ind. code	Industry by establishment count	Number of—			Number of establishments with average employment of—								
		Operating companies	Establishments	Employees	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1051	BAUXITE, TOTAL.....	12	29	705	15	2	3	7	...	2	...	...	...
	Multiunit companies, total....	7	24	654	13	1	2	6	...	2	...	...	...
	1 establishment <sup>1</sup> .....	5	5	654	1	...	...	2	...	2	...	...	...
	7-9 establishments.....	1	7		2	1	...	4	...	...	...	...	...
	10-14 establishments.....	1	12		10	...	2	...	...	...	...	...	...
	Single unit companies.....	5	5	51	2	1	1	1	...	...	...	...	...
1062	MANGANESE ORES, TOTAL.....	182	186	2,099	122	r22	20	r13	7	1	...	1	...
	Multiunit companies, total....	10	14	984	3	1	4	2	2	1	...	1	...
	1 establishment <sup>1</sup> .....	7	7	984	2	...	3	1	...	1	...	...	...
	2-3 establishments.....	3	7		1	1	1	1	2	...	...	1	...
	Single unit companies.....	172	172	1,115	119	r21	16	r11	5	...	...	...	...
1064	TUNGSTEN ORES, TOTAL.....	32	32	638	23	4	1	2	...	2	...	...	...
	Multiunit companies with												
	1 establishment <sup>1</sup> .....	7	7	512	4	1	...	...	...	2	...	...	...
	Single unit companies.....	25	25	126	19	3	1	2	...	...	...	...	...
1069	FERROALLOY ORES, NEC, TOTAL.....	75	76	2,701	63	5	1	1	2	2	1	...	1
	Multiunit companies, total....	11	12	2,524	6	...	...	1	1	2	1	...	1
	1 establishment <sup>1</sup> .....	10	10	2,524	4	...	...	1	1	2	1	...	1
	2 establishments.....	1	2		2	...	...	...	...	...	...	...	...
	Single unit companies.....	64	64	177	57	5	1	...	1	...	...	...	...

<sup>1</sup>Represents companies having at least one establishment classified in other industries.

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# Metal Mining Services and Miscellaneous Metal Ores

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Industry Group 108, Metal Mining Services, and Industry Group 109, Miscellaneous Metal Ores. The separate industries included in these groups are as follows:

## S.I.C. Code and Title (1957 Edition)

- 1081—Metal Mining Stripping Services
- 1082—Metal Mining Services, Except Stripping
- 1092—Mercury Ores
- 1093—Titanium Ores
- 1094—Uranium—Radium—Vanadium Ores
- 1099—Metallic Minerals (Ores), Not Elsewhere Classified

## METAL MINING SERVICES

Industry 1081, Metal Mining Stripping Services.--This industry represents establishments primarily engaged in overburden stripping and strip mining for metallic ores for others on a contract, fee, or other basis.

Industry 1082, Metal Mining Services, Except Stripping.--This industry represents establishments primarily engaged in performing metal mining services, except stripping services, for others on a contract, fee, or other basis. Included are services such as mine exploration, prospect drilling, mine development, and test drilling. Establishments primarily engaged in performing hauling services are excluded from this industry and all other industries in the Mining Division.

Establishments classified in the metal mining services industries were permitted to file one report for all mining services performed in the United States. These reports were classified on the basis of the principal type of service performed and the principal industry served to determine their industry or subindustry classification. (Selected subindustry statistics are shown in tables 1, 2, and 3 of this report.) Each report submitted included data on the amount received for services and the number of employees in March by State and county.

For geographic area statistics, all other figures in each report were allocated on the basis of the reported data.

Companies which had complete responsibility for operating mines for others on a contract basis were requested to report as mine operators rather than as mineral service establishments. Data for such activities are excluded from the statistics in this report on the metal mining services industries but are included in the appropriate metal mining industry report. The receipts for performing such contract operations are not shown anywhere in the Census of Mineral Industries.

The total receipts in the metal mining services industries in 1958 amounted to \$32 million, more than 96 percent of which was for services primary to these service industries. Receipts by the Metal Mining Stripping Services Industry were \$10 million and by the Metal Mining Services, Except Stripping, Industry, \$22 million.

The total receipts in 1958 for services performed by establishments classified in Major Group 10, as shown in the table below, was \$35 million. The latter value represents 26 percent of total payments to contractors reported by metal mining establishments, including payments to subcontractors by metal mining service establishments. Receipts for services by the metal mining services industries represented about 92 percent of all services performed by establishments classified in Major Group 10. It appears that the difference between total contract payments reported and total receipts for services, amounting to \$97 million, primarily represented payments to contractors for construction of mills and other facilities at mine and mill properties. The last column of the table below shows that total capital expenditures by metal mine operators for mill and other construction were \$98 million and that such expenditures, by industry, were comparable in magnitude to the difference between contract payments and contract receipts. (The metal mining services industries do not include contract construction. Service establishments wholly engaged in such construction were not reported in the 1958 Census. Service establishments performing both

PAYMENTS AND RECEIPTS FOR SERVICES AND AMOUNTS CAPITALIZED FOR CONSTRUCTION AT METAL MINING ESTABLISHMENTS  
FOR THE UNITED STATES AND ALASKA: 1958

Industry served	Cost of contract work as reported by mine operators (\$1,000)	Receipts for contract services reported in the metal mining industries (\$1,000)			Capital expenditures by metal mine operators for preparation plant and other construction (\$1,000)
		Total	By metal mining services industries	By mine operators classified in metal mining industries	
Metal mining, total.....	132,405	35,029	32,384	2,645	97,647
Iron ores.....	29,510	10,936	10,279	657	11,944
Copper, gold, and silver ores.....	22,689	11,459	11,329	130	15,797
Lead and zinc ores.....	2,952	539	429	110	1,845
Uranium-radium-vanadium ores.....	69,613	11,103	9,628	1,475	64,578
Other metal ores.....	17,641	992	719	273	13,483

<sup>1</sup>Includes expenditures by metal mining services establishments.



mining services and contract construction were asked to exclude contract construction activities from their Census reports. On the other hand, metal mining establishments were requested to report expenditures for mill and other construction.) A part of the difference between contract payments and contract receipts is probably explained by the inclusion of payments by mine operators for contract hauling and the exclusion from the mining services industries of establishments predominantly engaged in hauling. The table at the bottom of the preceding page summarizes, by metal mining industry served, the reported data on payments and receipts for contract services and capital expenditures on construction in Major Group 10 in 1958.

#### MISCELLANEOUS METAL ORES

Industry 1092, Mercury Ores.—This industry represents establishments primarily engaged in mining, milling, or otherwise preparing mercury ores. This industry includes the production of metallic mercury by furnacing or retorting at the mine site.

Industry 1093, Titanium Ores.—This industry represents establishments primarily engaged in mining, milling, or otherwise preparing titanium ores.

Industry 1094, Uranium-Radium-Vanadium Ores.—This industry represents establishments primarily engaged in mining, milling, or otherwise preparing uranium-radium-vanadium ores.

Industry 1099, Metallic Minerals (Ores), Not Elsewhere Classified.—This industry represents establishments primarily engaged in mining, milling, or otherwise preparing miscellaneous metallic minerals (ores), not elsewhere classified, such as antimony, beryllium, palladium, tin, and other rare-earth ores.

The total value of shipments and receipts of the Miscellaneous Metal Ores Industries in 1958 was \$365 million, of which primary products of these industries amounted to \$358 million, and secondary products, receipts for services, and products purchased and resold without further processing to \$7 million. Of this total value for the group, the Mercury Ores Industry accounted for \$9 million; the Titanium Ores Industry, \$17 million; the Uranium-Radium-Vanadium Ores Industry, \$336 million; and the Metallic Ores NEC Industry, \$3 million.

The above value figures for the Miscellaneous Metal Ores Industries represent gross value of shipments and receipts and contain duplication arising from the inclusion of the value of minerals transferred from one establishment to other establishments in the same industry for preparation. For the group as a whole, the value of minerals transferred to other establishments for preparation amounted to about \$111 million, or 30 percent of the gross value of shipments of all industries in this group. Of the total value of minerals transferred for preparation, 99 percent was in the Uranium-Radium-Vanadium Ores Industry.

The general statistics (employment, payrolls, value of shipments and receipts, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the production of secondary products, and in the performance of contract work for others. This fact should be taken into account in comparing industry statistics (table 1-4 and 7-12) with product statistics (table 6) showing production and shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5 which shows, insofar as possible, the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

The Bureau of the Census statistics on primary products of the Miscellaneous Metal Ores Industries are, in general, comparable with product statistics for the same commodities published by the Bureau of Mines. The differences which occur result primarily from differences in data collection methods, coverage, and objectives sought. The most nearly comparable statistics from the two bureaus are shown in the table below. Major reasons for the differences in product statistics are:

(1) The Bureau of the Census excludes small establishments whose value of shipments and reported costs were below \$500. The Bureau of Mines includes all reports obtained, regardless of size. However, the contribution to products of such small establishments which Census excludes is usually very small.

(2) The Bureau of the Census values of shipments represent reported values of f.o.b. mine or mill. Some Bureau of Mines values are based on quantity of production or shipments and quoted market prices. For example, the figure shown in the table below for Bureau of Mines value of mercury metal produced was obtained by multiplying quantity production by the average 1958 price per flask in New York.

(3) The Bureau of the Census figures for prepared products include products prepared from foreign materials. The Bureau of Mines figures for prepared products represent only products prepared from domestic materials. This explains most of the differences for titanium concentrates.

(4) Differences exist in coverage by the two bureaus. For titanium concentrate production, for example, the Bureau of the Census includes, and the Bureau of Mines excludes, data from establishments which engage only in preparing or grinding titanium products.

(5) For uranium-vanadium concentrates, the Bureau of the Census figures include low-grade concentrates shipped to preparation plants for upgrading. The Bureau of Mines figures for uranium-vanadium concentrates do not include such shipments.

## METAL MINING SERVICES AND MISCELLANEOUS METAL ORES

10E-3

QUANTITY AND VALUE OF MINERAL PRODUCTS AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU OF MINES FOR THE UNITED STATES: 1958

(Includes Alaska)

Product	Unit of measure	Bureau of the Census statistics			Bureau of Mines statistics		
		Production (Quantity)	Shipments including interplant transfers		Production (Quantity)	Shipments	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
Mercury ores:							
Crude mercury ores.....	1,000 short tons	<sup>1</sup> 400	(D)	(D)	<sup>2</sup> 328	(NA)	(NA)
Mercury metal.....	Flasks (70 pounds)	<sup>1</sup> 33,812	<sup>1</sup> 37,144	<sup>3</sup> 8,402	38,067	(NA)	8,720
Titanium ores:							
Crude titanium ores.....	1,000 short tons	13,244	...	...	(NA)	(NA)	(NA)
Titanium concentrates.....	.....do.....	606	598	12,365	571	567	11,365
Uranium-radium-vanadium ores:							
Crude uranium-vanadium ores.....	.....do.....	5,480	3,622	91,303	5,178	(NA)	<sup>4</sup> 116,515
Uranium-vanadium concentrates...	.....do.....	59	59	243,080	<sup>5</sup> 13	(NA)	<sup>4</sup> 238,000
Bastnaesite and monazite concentrates.....	Short tons	5,663	1,074	250	(NA)	987	(NA)
Beryllium concentrates.....	.....do.....	474	474	213	463	463	238
Zirconium concentrates.....	.....do.....	36,458	40,734	1,678	30,443	(NA)	<sup>6</sup> 1,248
Antimony concentrates, platinum, and thorium concentrates.....	.....do.....	xxx	xxx	<sup>3</sup> 3,157	xxx	xxx	(NA)

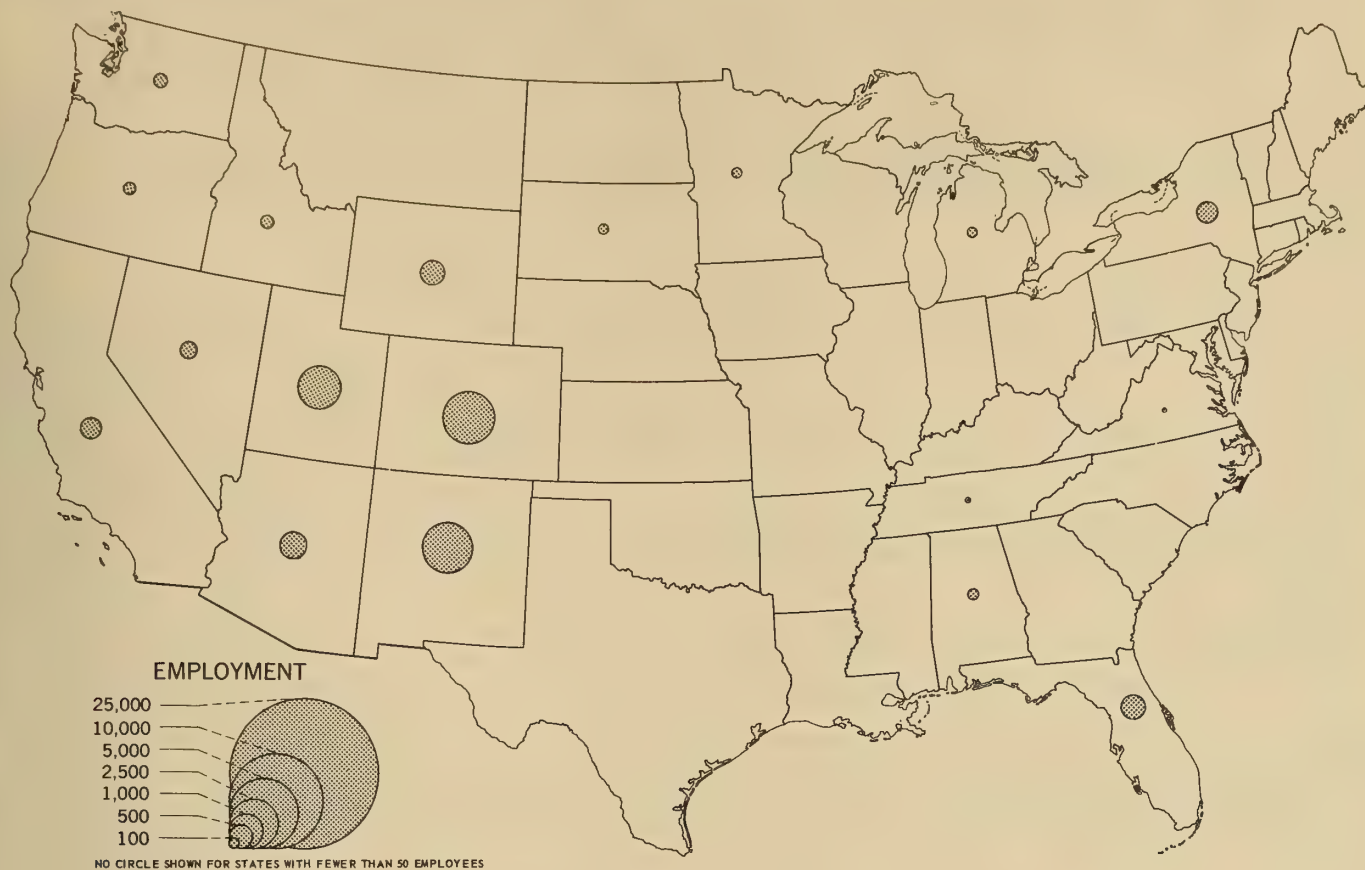
NA--Not available. <sup>1</sup>Excludes figures for Alaska. The Bureau of Mines showed production of 3,380 flasks of mercury in Alaska. <sup>2</sup>Represents mercury ores treated. <sup>3</sup>The value of mercury metal produced in Alaska is excluded from the figure for mercury metal and included with the value of "Antimony concentrates, platinum, and thorium concentrates." <sup>4</sup>Represents value of production f.o.b. mine. <sup>5</sup>Represents tonnage of U<sub>3</sub>O<sub>8</sub> contained in uranium concentrates produced. <sup>6</sup>Estimated from the quantity of mine production and the year-end price of zircon concentrates at Jacksonville.





# METAL MINING SERVICES AND MISCELLANEOUS METAL ORES

Distribution of Employment by State:1958



Employment :1840-1958

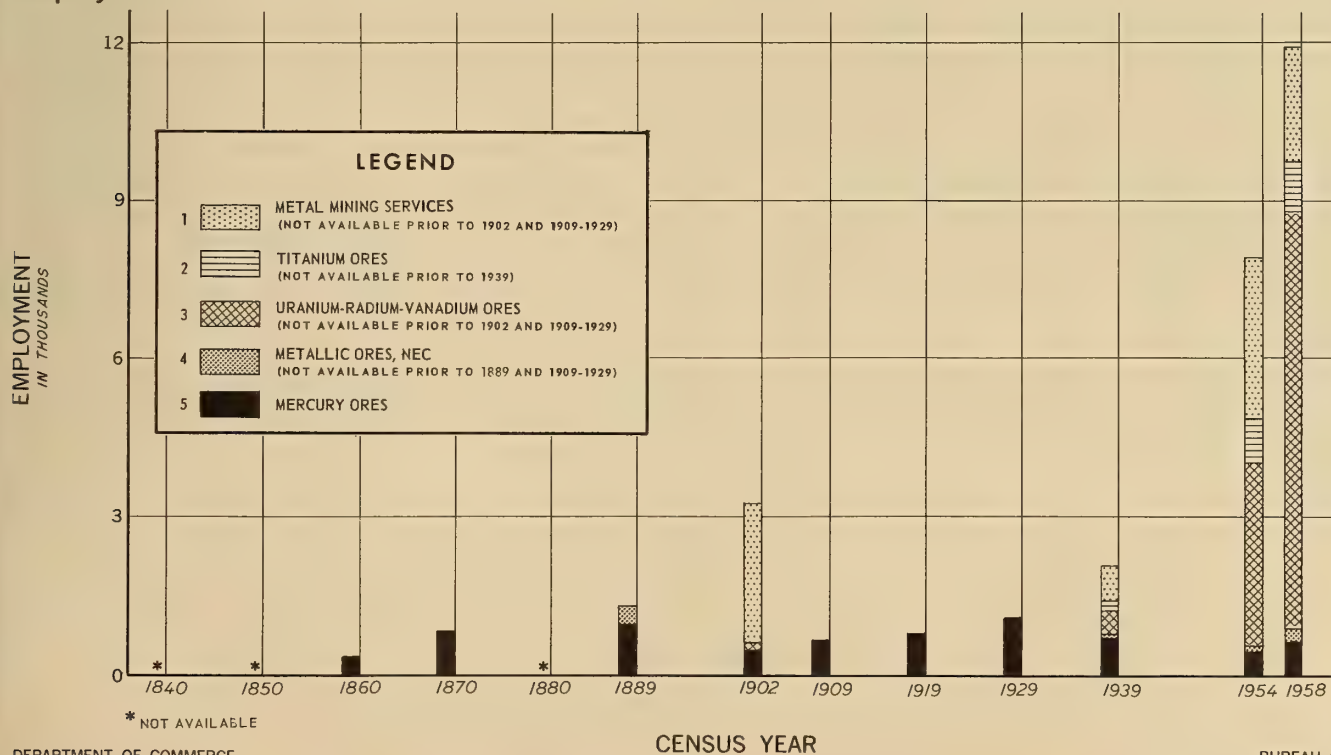




Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanations of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. I)

Industry code, industry or sub- industry, and year	Operating com- panies, number	Establish- ments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts (\$1,000)	Value of net shipments and receipts <sup>1</sup> (\$1,000)	Quantity of primary products <sup>2</sup>	Capital expendi- tures (\$1,000)
		Total	With 20 or more em- ploy- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		Supplies, purchases for resale, fuels, and purchased electricity	Minerals received for prepa- ration	Contract or sub- contract work	Purchased machinery installed				
108—METAL MINING SERVICES:																	
1958.....	91	95	23	2,184	12,097	1,973	4,274	10,624	22,862	8,988	xxx	432	1,365	32,384	32,384	xxx	1,263
1954.....	114	114	26	3,059	15,268	2,863	6,519	13,933	26,703	11,818	xxx	509	2,049	38,679	38,539	xxx	2,407
1939.....	69	69	(NA)	695	985	637	1,344	853	1,822	546	xxx	(NA)	(NA)	2,368	2,368	xxx	47
1902 <sup>3</sup> .....	(NA)	(NA)	(NA)	2,574	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	xxx	(NA)	(NA)	(NA)	1,373	xxx	(NA)
Subindustry																	
Iron ores services:																	
1958.....	17	17	8	805	4,066	748	1,603	3,613	6,517	3,605	xxx	52	325	10,279	10,279	xxx	220
1954.....	20	20	(NA)	810	4,209	759	1,695	3,848	6,753	3,801	xxx	140	383	10,351	10,351	xxx	726
1939.....	6	6	(NA)	109	152	98	175	128	197	57	xxx	(NA)	(NA)	254	xxx	27	
Copper ores and gold services:																	
1958.....	11	12	6	629	3,447	581	1,262	3,191	9,235	1,926	xxx	165	764	11,329	11,329	xxx	761
1954.....	8	8	(NA)	952	5,024	(NA)	2,215	(NA)	10,202	4,727	xxx	...	727	14,836	14,836	xxx	820
1939 <sup>4</sup> .....	38	38	(NA)	314	477	287	637	432	1,081	279	xxx	(NA)	(NA)	(NA)	1,360	xxx	17
Lead and zinc ores services:																	
1958.....	12	12	...	39	157	39	76	147	343	95	xxx	5	6	429	429	xxx	20
1954.....	19	19	(NA)	156	768	(NA)	347	(NA)	1,103	156	xxx	20	20	1,281	1,281	xxx	18
1939.....	18	18	(NA)	200	246	184	409	212	383	154	xxx	(NA)	(NA)	537	xxx	3	
Bauxite, fer- roalloy ores, and miscella- neous metal ores services:																	
1958.....	52	54	9	711	4,427	605	1,333	3,673	6,767	3,362	xxx	210	270	10,347	10,347	xxx	262
1954.....	67	67	(NA)	1,141	5,267	1,025	2,262	4,502	8,645	3,134	xxx	349	919	12,211	12,071	xxx	836
1939.....	7	7	(NA)	72	110	68	123	81	161	56	xxx	(NA)	(NA)	217	xxx	...	
1081—METAL MINING STRIPPING SERVICES:																	
1958.....	29	29	6	553	2,672	505	1,013	2,357	8,472	1,517	xxx	123	1,013	10,270	10,270	xxx	855
1954.....	24	24	(NA)	1,173	5,691	(NA)	2,722	(NA)	13,071	57,925	xxx	( <sup>5</sup> )	1,011	20,545	(D)	xxx	1,462
1082—METAL MINING SERVICES, NEC:																	
1958.....	62	66	17	1,631	9,425	1,468	3,261	8,267	14,390	7,471	xxx	309	352	22,114	22,114	xxx	408
1954.....	90	90	(NA)	1,886	9,577	(NA)	3,797	(NA)	13,632	54,402	xxx	( <sup>5</sup> )	1,038	18,134	(D)	xxx	938
109—MISCELLANE- OUS METAL ORES																	
1958.....	708	758	79	9,790	53,093	7,851	16,673	40,800	196,488	71,255	110,535	69,845	22,720	365,234	254,699	xxx	105,609
1954.....	701	781	39	4,881	20,686	3,982	8,536	16,250	(NA)	17,676	(NA)	7,957	7,596	(NA)	(NA)	xxx	20,383
1939.....	683	880	(NA)	1,339	1,708	1,182	2,622	1,390	2,837	874	(NA)	49	(NA)	3,760	xxx	(NA)	
1092—MERCURY ORES:																	
1958.....	77	79	9	652	3,112	569	1,223	2,627	7,093	71,951	( <sup>7</sup> )	55	370	8,607	(D)	33,812	862
1954.....	81	87	5	453	1,972	372	841	1,607	3,355	71,425	( <sup>7</sup> )	28	226	4,519	(D)	17,487	515
1939.....	72	869	(NA)	702	916	621	1,421	752	1,425	401	(NA)	4	(NA)	1,830	18,222	(NA)	(NA)
1929 <sup>9</sup> .....	(NA)	40	(NA)	1,117	1,603	1,029	(NA)	1,383	2,042	763	(NA)	15	618	2,820	23,769	(NA)	(NA)
1919 <sup>9</sup> .....	(NA)	26	(NA)	819	1,049	748	(NA)	828	1,235	560	...	8	(NA)	1,803	1,803	(NA)	(NA)
1909.....	30	30	(NA)	670	564	622	(NA)	477	660	198	...	10	(NA)	868	868	(NA)	(NA)
1902.....	46	851	(NA)	1,489	1,073	101,364	(NA)	909	1,198	329	(NA)	23	(NA)	1,550	34,517	(NA)	(NA)
1889 <sup>9</sup> .....	(NA)	811	(NA)	957	626	119,17	(NA)	566	971	220	(NA)	(NA)	(NA)	1,191	26,638	(NA)	(NA)
1870.....	(NA)	4	(NA)	811	599	(NA)	(NA)	(NA)	787	31	(NA)	(NA)	(NA)	818	(NA)	(NA)	(NA)
1860.....	(NA)	3	(NA)	335	159	(NA)	(NA)	(NA)	216	166	(NA)	(NA)	(NA)	382	(NA)	(NA)	(NA)
1093—TITANIUM ORES: <sup>12</sup>																	
1958.....	9	11	7	962	4,496	706	1,234	2,882	12,746	74,943	( <sup>7</sup> )	121	1,831	17,158	16,531	602,535	2,483
1954.....	7	10	6	843	3,699	568	1,261	2,397	11,134	73,993	( <sup>7</sup> )	335	1,286	12,750	(D)	135,276	3,998
1939.....	3	83	(NA)	196	182	183	322	140	370	88	(NA)	...	(NA)	458	16,471	(NA)	(NA)

See footnotes at end of table.

Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

Industry code, industry or sub- industry, and year	Operating com- panies, number	Establish- ments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts (\$1,000)	Value of net shipments and receipts <sup>1</sup> (\$1,000)	Quantity of primary products <sup>2</sup>	Capital expendi- tures (\$1,000)
		Total	With 20 or more em- ploy- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		Supplies, purchases for resale, fuels, and purchased electricity	Minerals received for prepa- ration	Contract or sub- contract work	Purchased machinery installed				
1094—URANIUM- RADIUM- VANADIUM ORES: <sup>14</sup>																	
1958.....	563	602	61	7,939	44,422	6,389	13,873	34,439	174,802	64,057	109,452	69,613	20,092	336,451	226,999	5,480	101,565
1954.....	572	637	26	3,467	14,568	2,944	6,227	11,908	( <sup>15</sup> )	12,612	( <sup>15</sup> )	7,462	5,336	( <sup>15</sup> )	( <sup>15</sup> )	( <sup>15</sup> )	14,793
1939.....	8	8	(NA)	441	609	378	879	497	1,043	384	(NA)	45	(NA)	(NA)	1,472	105	(NA)
1902.....	3	8 <sup>3</sup>	(NA)	21	21	10 <sup>19</sup>	(NA)	17	45	3	(NA)	...	(NA)	(NA)	48	4	(NA)
1099—METALLIC ORES, NEC: <sup>16</sup>																	
1958.....	66	66	2	237	1,063	187	343	852	1,847	71,387	( <sup>7</sup> )	56	427	3,018	(D)	xxx	699
1954.....	44	47	2	118	447	98	207	338	794	728	( <sup>7</sup> )	132	748	1,325	(D)	xxx	1,077
1902.....	22	23	(NA)	91	27	1088	(NA)	25	64	...	(NA)	...	(NA)	(NA)	64	xxx	(NA)
1889 <sup>17</sup> .....	(NA)	(NA)	(NA)	350	214	(NA)	(NA)	(NA)	( <sup>18</sup> )	65	(NA)	5	(NA)	(NA)	28	xxx	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Figures for 1939 and earlier years represent value of net production and receipts.

<sup>2</sup>Represents production. For the Mercury Ores Industry, represents flasks (1/6 pounds each) of mercury metal. For the Titanium Ores Industry, represents short tons of titanium (ilmenite and rutile) concentrates; for the Uranium-Radium-Vanadium Ores Industry, represents thousands of short tons of crude uranium-vanadium ores.

<sup>3</sup>Represents number of employees engaged in contract work and payments for contract work as reported by companies operating metal mines.

<sup>4</sup>Includes data for 3 establishments which performed services primarily for the Silver Ores Industry.

<sup>5</sup>The figure for the cost of subcontract work is combined with the figure for the cost of supplies, purchases for resale, fuels, and purchased electricity.

<sup>6</sup>Represents the sum of the figures shown for the separate industries and may include some duplication due to the same company operating in more than one industry.

<sup>7</sup>The figure for the cost of minerals received for preparation is combined with the figure for the cost of supplies, purchases for resale, fuels, and purchased electricity. For 1954, the combined cost of minerals received for preparation for the Mercury Ores, Titanium Ores, and Metallic Ores, NEC, Industries was \$1,082 thousand.

<sup>8</sup>Represents number of mines.

<sup>9</sup>Excludes nonproducing operations as follows: 1929, 13 establishments; 1919, 2 establishments; and 1889, 6 mines.

<sup>10</sup>Figures for the average number of production and development workers were converted to a 300-day basis for establishments which operated for a shorter period.

<sup>11</sup>Represents the average number during the times the mines were active.

<sup>12</sup>In addition to the years shown, Titanium Ores establishments were reported as follows: 1929, 1; 1919, 2; 1909, 1; and 1902, 1.

<sup>13</sup>Includes production by industries other than Titanium Ores.

<sup>14</sup>In addition to the years shown, Uranium-Radium-Vanadium Ores establishments were reported as follows: 1929, 2; 1919, 13; and 1909, 2.

<sup>15</sup>Not available. Figures for quantity of ores and concentrates, value of shipments, and cost of minerals received for preparation were not collected in the 1954 Census. The Uranium chapter of the 1959 Minerals Yearbook (United States Department of the Interior, Bureau of Mines) shows uranium ore production in 1954 as 914 thousand short tons. On the basis of these and other figures in this 1959 Minerals Yearbook, it is estimated that the value of shipments and receipts of the Uranium-Radium-Vanadium Ores Industry in 1954 was between \$70 and \$90 million, that the value of net shipments and receipts was between \$30 and \$50 million, that value added in mining was between \$20 and \$40 million and that cost of minerals received for preparation between \$30 and \$50 million.

<sup>16</sup>In addition to the years shown, Metallic Ores, NEC establishments were reported as follows: 1939, 1; 1929, 1; and 1909, 3.

<sup>17</sup>Represents antimony operations and selected figures for 678 nonproducing tin openings.

<sup>18</sup>Not shown since the cost of supplies and contract work exceeds the value of shipments and receipts.



Table 2.—General Statistics by Regions, States, and Type of Operation: 1958 and 1954

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries by State, see table 2 of the corresponding Chapter of 1954 Census of Mineral Industries, Vol. I.)

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of primary products <sup>2</sup>	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Pay-roll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
108	METAL MINING SERVICES, TOTAL <sup>3</sup> .....	95	23	2,184	12,097	1,973	4,274	10,624	22,862	10,785	32,384	xxx	1,263	3,059	26,703
1081	Metal Mining Stripping Services.....	29	6	553	2,672	505	1,013	2,357	8,472	2,653	10,270	xxx	855	1,173	13,071
1082	Metal Mining Services, NEC.....	66	17	1,631	9,425	1,468	3,261	8,267	14,390	8,132	22,114	xxx	408	1,886	13,632
	<u>Region and State<sup>3</sup></u>														
	Northeast.....	17	3	186	993	171	357	891	1,552	742	2,290	xxx	4	462	3,770
	New York.....	8	2	125	665	112	230	576	1,103	520	1,622	xxx	1	(NA)	(NA)
	East North Central (Metal Mining Services, NEC)	24	2	135	808	127	268	719	1,104	684	1,779	xxx	9	93	809
	Michigan.....	13	2	116	704	109	229	622	928	592	1,512	xxx	8	(NA)	(NA)
	West North Central.....	24	1	159	927	133	279	722	1,437	491	1,844	xxx	84	99	765
	Minnesota.....	12	1	118	733	92	198	528	1,104	335	1,370	xxx	69	(NA)	(NA)
	Metal Mining Stripping Services.....	3	1	79	498	61	129	356	729	252	981	xxx	(4)	(NA)	(NA)
	South.....	39	4	264	1,202	246	532	1,097	2,230	1,458	3,566	xxx	122	274	2,237
	East South Central.....	12	4	207	972	196	438	903	1,795	1,242	2,935	xxx	102	236	1,996
	Mountain, total.....	171	16	1,341	7,615	1,203	2,629	6,686	15,329	6,918	21,269	xxx	978	2,067	18,667
	Metal Mining Stripping Services.....	32	5	371	1,610	354	699	1,527	6,460	1,829	7,535	xxx	754	(NA)	(NA)
	Metal Mining Services, NEC.....	139	11	970	6,005	849	1,930	5,159	8,869	5,089	13,734	xxx	224	(NA)	(NA)
	Colorado.....	49	4	317	1,728	302	656	1,623	2,773	1,268	3,967	xxx	74	(NA)	(NA)
	Metal Mining Services, NEC.....	38	4	280	1,576	265	585	1,471	2,470	1,154	3,580	xxx	44	(NA)	(NA)
	New Mexico (Metal Mining Services, NEC).....	18	3	215	1,597	207	487	1,550	2,630	1,507	4,062	xxx	75	(NA)	(NA)
	Arizona.....	26	3	278	1,424	255	538	1,281	3,789	1,701	5,075	xxx	415	75	977
	Utah, total.....	31	3	283	1,633	208	455	1,109	2,787	971	3,693	xxx	65	(NA)	(NA)
	Metal Mining Stripping Services.....	8	1	94	451	92	190	447	1,646	310	1,909	xxx	47	(NA)	(NA)
	Metal Mining Services, NEC.....	23	2	189	1,182	116	265	662	1,141	661	1,784	xxx	18	(NA)	(NA)
	Nevada.....	16	2	118	618	110	233	567	1,741	551	2,157	xxx	135	(NA)	(NA)
	Pacific.....	26	...	79	427	73	163	384	968	406	1,308	xxx	66	64	455
1082	Alaska and Hawaii (Metal Mining Services, NEC)	4	...	20	125	20	46	125	242	86	328	xxx	...	...	...
	<u>Services by Principal Industry Served</u>														
	Iron ores services, total.....	17	8	805	4,066	748	1,603	3,613	6,517	3,982	10,279	xxx	220	810	6,753
	Metal Mining Stripping Services.....	8	3	211	1,208	186	373	1,008	2,794	815	3,570	xxx	39	(NA)	(NA)
	Metal Mining Services, NEC.....	9	5	594	2,858	562	1,230	2,605	3,723	3,167	6,709	xxx	181	(NA)	(NA)
	Copper ores and lode gold services.....	12	6	629	3,447	581	1,262	3,191	9,235	2,855	11,329	xxx	761	<sup>5</sup> 952	<sup>5</sup> 10,202
	Uranium-radium-vanadium ores services, total..	46	8	647	4,164	547	1,227	3,431	6,329	3,544	9,628	xxx	245	(6)	(6)
	Metal Mining Stripping Services.....	13	1	69	306	66	135	297	589	196	736	xxx	49	(NA)	(NA)
	Metal Mining Services, NEC.....	33	7	578	3,858	481	1,092	3,134	5,740	3,348	8,892	xxx	196	(NA)	(NA)
	Other metal ores services <sup>7</sup> .....	20	1	103	420	97	182	389	781	404	1,148	xxx	37	<sup>6</sup> 1,297	<sup>6</sup> 9,748
1092	MERCURY ORES, TOTAL.....	79	9	652	3,112	569	1,223	2,627	7,093	2,376	8,607	33,812	862	<sup>8</sup> 453	3,355
	<u>Region and State</u>														
	West South Central and Mountain.....	26	3	184	876	166	355	787	2,516	710	2,978	9,935	248	132	1,186
	Nevada.....	16	2	137	656	126	273	609	1,811	445	2,122	6,997	134	(NA)	(NA)
	Pacific.....	53	6	468	2,236	403	868	1,840	4,577	1,666	5,629	23,877	614	321	2,169
	California.....	41	5	383	1,820	329	711	1,491	3,927	1,235	4,981	21,334	181	295	2,067
	<u>Type of Operation</u>														
	Producing establishments, total.....	67	9	630	3,056	550	1,199	2,579	7,084	2,329	8,607	33,812	806	416	3,390
	Open-pit mines with preparation plants.....	40	2	105	493	95	213	444	1,275	634	1,639	7,165	270	(NA)	(NA)
	Underground mines with preparation plants...	20	6	412	1,970	353	766	1,616	3,557	1,153	4,291	18,258	419	<sup>9</sup> 321	<sup>9</sup> 2,219
	Square setting.....	7	3	283	1,371	235	526	1,083	2,359	837	3,010	9,497	186	(NA)	(NA)
	Other types of operation.....	7	1	113	593	102	220	519	2,252	542	2,677	8,389	117	(NA)	(NA)
	Nonproducing establishments.....	12	...	22	56	19	24	48	9	47	...	...	56	27	(10)
1093	TITANIUM ORES.....	11	7	962	4,496	706	1,234	2,882	12,746	6,895	17,158	602,535	2,483	843	11,134
1094	URANIUM-RADIUM-VANADIUM ORES, TOTAL.....	602	61	7,939	44,422	6,389	13,873	34,439	174,802	263,214	336,451	5,480	101,565	3,467	(NA)
	<u>Region and State</u>														
	East and South.....	25	1	132	691	106	242	521	2,007	4,336	5,777	37	566	101	(NA)
	South Dakota.....	15	1	111	586	95	218	476	2,033	4,268	5,768	37	533	37	(NA)
	Mountain.....	548	58	7,609	42,658	6,121	13,286	33,078	167,557	252,950	324,039	5,272	96,468	3,337	(NA)
	Wyoming.....	64	3	578	3,332	453	1,038	2,618	18,046	24,508	32,874	612	9,680	13	(NA)
	Colorado.....	227	22	2,500	12,688	1,990	4,181	9,805	29,176	75,880	87,773	836	17,283	1,631	(NA)
	New Mexico.....	49	11	2,184	13,792	1,801	4,197	10,781	62,787	79,449	77,394	2,196	64,842	421	(NA)

See footnotes at end of table.

Table 2.—General Statistics by Regions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of ship- ments and receipts	Quan- tity of pri- mary prod- ucts <sup>2</sup>	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more em- ployees	Num- ber	Pay- roll	Num- ber	Man- hours	Wages							
					(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)			(\$1,000)		(\$1,000)
	<u>Region and State—Continued</u>														
	Mountain—Continued														
	Arizona.....	35	6	507	2,220	473	978	2,007	7,980	5,804	12,855	222	929	340	(NA)
	Utah.....	160	16	1,791	10,387	1,374	2,835	7,731	49,545	67,218	113,088	1,403	3,675	881	(NA)
	Pacific.....	29	2	198	1,073	162	345	840	5,238	5,928	6,635	171	4,531	29	(NA)
	Washington.....	13	1	108	504	83	179	380	3,696	2,965	6,574	153	87	(NA)	(NA)
	<u>Type of Operation</u>														
	Producing establishments, total.....	469	61	7,701	43,435	6,191	13,508	33,664	175,162	261,673	336,451	5,480	100,384	2,928	(NA)
	Mines only:														
	Open-pit.....	76	2	320	1,888	259	593	1,554	9,049	7,193	12,572	697	3,670	172	(NA)
	Combination open-pit and underground.....	12	3	252	1,004	241	546	944	3,673	1,507	4,350	150	830	(11)	(NA)
	Underground:														
	Open-stopping.....	330	22	2,339	12,958	2,077	4,265	11,350	56,513	19,401	67,053	2,650	8,861	1,295	(NA)
	Cut and fill stoping.....	4	3	125	727	116	279	641	2,477	442	2,694	54	225		
	Other.....	17	3	174	943	121	257	733	4,457	673	4,967	107	163		
	Mines with preparation plants.....	10	9	1,898	11,934	1,512	3,624	9,021	65,590	66,476	76,102	1,822	55,964	11,460	(NA)
	Preparation plants only.....	20	19	2,593	13,981	1,865	3,944	9,421	33,403	165,981	168,713	1,254	30,671	1,001	(NA)
	Nonproducing establishments.....	133	...	238	987	198	365	775	(10)	1,541	...	...	1,181	539	(NA)
1099	METALLIC ORES, NEC, TOTAL.....	66	2	237	1,063	187	343	852	1,847	1,870	3,018	xxx	699	118	794
	<u>Region</u>														
	East and South.....	24	1	61	223	36	72	144	366	499	664	xxx	201	39	328
	West.....	42	1	176	840	151	271	708	1,481	1,371	2,354	xxx	498	79	466
	<u>Type of Operation</u>														
	Producing establishments, total.....	50	2	191	915	148	276	728	1,840	1,558	3,018	xxx	380	(NA)	(NA)
	Mines only.....	42	...	56	163	45	73	138	252	202	252	xxx	202		
	Mines with preparation plants and preparation plants only.....	8	2	135	752	103	203	590	1,588	1,356	2,766	xxx	178		
	Nonproducing establishments.....	16	...	46	148	39	67	124	7	312	...	...	319		

NA Not available.

<sup>1</sup>General statistics for most States are not shown separately in this table in order to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such States are shown below for 1958, with the number of establishments in each State (and in parentheses the number of employees or employment-size range).

SIC 1081, Metal Mining Stripping Services: New York, 1 (50-99); Georgia, 4 (5-9); Tennessee, 1 (0-4); Arkansas, 1 (5-9); Texas, 1 (0-4); Idaho, 1 (20-49); Wyoming, 1 (5-9); Colorado, 11 (37); Arizona, 8 (100-249); Nevada, 3 (42); Washington, 1 (10-19); and California, 1 (5-9).

SIC 1082, Metal Mining Services, NEC: Maine, 2 (5-9); Vermont, 1 (0-4); Connecticut, 2 (10-19); New York, 7 (50-99); New Jersey, 1 (5-9); Pennsylvania, 3 (31); Ohio, 2 (5-9); Indiana, 1 (0-4); Illinois, 4 (0-4); Wisconsin, 4 (5-9); Minnesota, 9 (39); Missouri, 12 (41); Virginia, 11 (21); North Carolina, 4 (20-49); Florida, 2 (0-4); Kentucky, 4 (16); Tennessee, 2 (50-99); Alabama, 5 (100-249); Louisiana, 1 (0-4); Texas, 3 (0-4); Montana, 7 (10-19); Idaho, 5 (5-9); Wyoming, 17 (56); Arizona, 18 (100-249); Nevada, 13 (76); Washington, 6 (10-19); Oregon, 2 (0-4); and California, 16 (40).

SIC 1092, Mercury Ores: Texas, 2 (0-4); Idaho, 3 (20-49); Arizona, 5 (3); Washington, 4 (19); and Oregon, 8 (66). In addition, 2 establishments were reported in Alaska, with employment in the range 10-19.

SIC 1093, Titanium Ores: New York, 1 (250-499); Ohio, 1 (10-19); Maryland, 2 (0-4); Virginia, 2 (20-49), including separately reported central office employees in Colorado; and Florida, 5 (572).

SIC 1094, Uranium-Radium-Vanadium Ores: New York, 1 (10-19), including separately reported central office employees in Illinois; Missouri, 2 (0-4); North Dakota, 2 (0-4); Kansas, 1 (1-4); Oklahoma, 1 (0-4); Texas, 3 (0-4); Montana, 5 (8); Idaho, 4 (22); Nevada, 4 (19); Oregon, 4 (73); and California, 12 (17). In addition, 1 establishment was reported in Alaska, engaged in exploration and development, with employment in the range 0-4 employees.

SIC 1099, Metallic Ores, NEC: South Dakota, 18 (10, including separately reported central office employees in Ohio); North Carolina, 1 (0-4); South Carolina, 3 (38); Florida, 1 (10-19); Arkansas, 1 (0-4); Idaho, 3 (17); Wyoming, 3 (0-4); Colorado, 25 (104); New Mexico, 2 (5-9); Arizona, 3 (13); Nevada, 3 (10-19); and California, 3 (20-49). In addition, 2 establishments were reported in Alaska, with employment range of 20-49.

<sup>2</sup>Represents production. For the Mercury Ores Industry represents flasks (76 pounds each) of mercury metal. For the Titanium Ores Industry, represents short tons of titanium (ilmenite and rutile) concentrates. For the Uranium-Radium-Vanadium Ores Industry, represents thousands of short tons of crude uranium-vanadium ores.

<sup>3</sup>Service establishments were permitted to prepare one report for all mining services performed in the United States. The totals shown for number of establishments in this table, and all figures shown for number of establishments in other tables of this report, represent the counts of these reports. For 1958, however, these reports contained data for total receipts for services and total employment on March 15 by State and county. All other region and State information in this table for 1958 was obtained by allocating the totals reported by each company on the basis of the reported county data. The number of establishments shown by region and State represents the number of operations in such regions and States. Statistics for regions and States in 1954 represent totals for the respective items of information for reports classified, on the basis of receipts for services, in such regions and States.

<sup>4</sup>Figures for capital expenditures are combined with figures for value of shipments and receipts.

<sup>5</sup>Includes figures for Placer Gold Services; no services for the Placer Gold Industry were reported for 1958.

<sup>6</sup>Figures for the Uranium-Radium-Vanadium Ores Services are included with those for Other Metal Ores Services.

<sup>7</sup>For 1958, represents establishments principally serving the following industries: Lead and Zinc Ores, 12 establishments; Bauxite, 2; Manganese Ores, 5; and Metallic Ores, NEC, 1.

<sup>8</sup>Includes 10 employees at separately reported central offices. These were not classified by type of operation.

<sup>9</sup>Includes data for one underground mine without preparation plant.

<sup>10</sup>Not shown since the cost of supplies, minerals received for preparation, fuels, purchased electricity, and purchased machinery exceeds the capital expenditures.

<sup>11</sup>Figures for "combination open-pit and underground mines only" are included with those for "mines with preparation plants."

<sup>12</sup>Represents uranium-vanadium concentrates. Note that the sum of the products for all other types of operation is equal to the figure shown for the total production by all producing establishments.



Table 3.—Detailed Statistics for Industries, Selected Areas,

Item	103—Metal mining services indus- tries	1081— Metal mining stripping services industry	1082—Metal mining services, except stripping industry				109— Miscel- laneous metal ores industries	1092—Mercury ores industry		1093— Titanium ores industry	1094—Uranium-radium- vanadium ores industry		
			United States, all oper- ations	By principal in- dustry served		United States, all oper- ations		Pacific	United States, total		East and South		
				Iron ores services	Uranium- radium- vanadium ores services						All opera- tions	South Dakota	
1	Number of establishments, total.....	95	29	66	9	33	758	79	53	11	602	25	15
2	With 0-19 employees.....	72	23	49	4	26	679	70	47	4	541	24	14
3	With 20-99 employees.....	16	5	11	3	5	55	8	5	3	42	1	1
4	With 100 employees and over.....	7	1	6	2	2	24	1	1	4	19	...	...
5	Including mines.....	xxx	xxx	xxx	xxx	xxx	732	78	53	10	582	24	14
6	Including plants.....	xxx	xxx	xxx	xxx	xxx	122	72	48	11	30	1	1
7	Quantity of primary products <sup>1</sup> .....	xxx	xxx	xxx	xxx	xxx	xxx	33,812	23,877	602,535	5,480	37	37
8	Value of shipments and receipts.....\$1,000..	32,384	10,270	22,114	6,709	8,892	365,234	8,607	5,629	17,158	336,451	5,777	5,768
9	Resales and minerals transferred to other establishments for preparation.....do....	...	...	...	...	...	110,876	8,607	5,629	{ 627	109,452	5,777	5,768
10	Net shipments and receipts, total.....do....	32,384	10,270	22,114	6,709	8,892	254,358						
11	Primary products or services.....do....	32,384	10,270	22,114	6,709	8,892	{ 247,660 36,698	(D)	(D)	{ 16,531	226,999	{ (D)	(D)
12	Other products and services.....do....							(D)	(D)				
13	Value added in mining.....do....	22,862	8,472	14,390	3,723	5,740	196,488	7,093	4,577	12,746	174,802	2,007	2,033
14	Number of persons engaged, total.....	2,269	584	1,685	596	611	10,434	730	530	962	8,446	144	123
15	Production and development workers (average for year).....	1,973	505	1,468	562	481	7,851	569	403	706	6,389	106	95
16	January.....	2,005	411	1,594	617	471	7,483	551	373	738	5,974	115	106
17	February.....	1,977	416	1,561	614	451	7,572	539	371	910	5,949	99	90
18	March.....	1,928	421	1,507	604	473	7,573	548	376	906	5,900	99	90
19	April.....	1,900	463	1,437	583	440	7,673	553	386	671	6,262	105	92
20	May.....	2,038	520	1,518	581	475	7,663	545	386	660	6,271	106	93
21	June.....	1,949	547	1,402	560	469	7,907	548	382	674	6,500	104	91
22	July.....	2,019	563	1,456	548	495	8,182	563	397	673	6,759	109	96
23	August.....	2,029	575	1,454	546	484	8,127	562	398	643	6,746	115	102
24	September.....	2,027	551	1,476	549	486	8,118	548	392	631	6,750	111	98
25	October.....	2,078	555	1,523	536	496	8,061	549	392	625	6,716	103	93
26	November.....	1,902	515	1,387	518	491	8,061	551	388	623	6,717	105	95
27	December.....	1,859	460	1,399	518	469	8,054	552	395	631	6,697	104	94
28	Other employees.....	211	48	163	32	97	1,939	83	65	256	1,550	26	16
29	Proprietors and firm members.....	85	31	54	2	33	644	78	62	...	507	12	12
30	Performing manual labor.....	50	22	28	1	15	394	62	46	...	291	12	12
31	Man-hours worked by production and develop- ment workers.....1,000..	4,274	1,013	3,261	1,230	1,092	16,673	1,223	868	1,234	13,873	242	218
32	At mines, total.....do....	xxx	xxx	xxx	xxx	xxx	9,794	957	706	505	8,184		
33	Underground <sup>4</sup> .....do....	697	...	697	(D)	308	6,017	649	483	...	5,352	242	218
34	Open-pit <sup>5</sup> .....do....	464	464	...	...	...	1,912	165	105	319	1,347		
35	Surface (including mine shops and yards) <sup>6</sup> .....do....	549	549	...	...	...	1,865	143	118	186	1,485	242	218
36	At preparation plants <sup>7</sup> .....do....	2,564	...	2,564	(D)	784	6,879	266	162	729	5,689		
37	Man-hours spent on development and exploration work (included above).....do....	xxx	xxx	xxx	xxx	xxx	2,198	84	79	7	2,048	11	8
38	Principal expenses designated below, total.....\$1,000..	21,517	4,312	17,205	5,886	7,015	304,728	5,118	3,624	9,560	287,544	4,591	4,432
39	Wages of production and development workers.....do....	10,624	2,357	8,267	2,605	3,134	40,800	2,627	1,840	2,882	34,439	521	476
40	Salaries of all other employees.....do....	1,473	315	1,158	253	724	12,293	485	396	1,614	9,983	170	110
41	Supplies <sup>8</sup> .....do....	7,657	972	6,685	2,787	2,729	61,854	1,462	1,045	{ 3,252	{ 57,027	3,337	3,325
42	Minerals received for preparation.....do....	xxx	xxx	xxx	xxx	xxx	110,535						
43	Purchased fuel.....do....	1,271	494	777	241	336	{ 3,732	102	92	1,077	2,505	44	44
44	Purchased electricity.....do....	60	51	9	(9)			92	69,845	55	48	121	69,613
45	Contract or subcontract work.....do....	432	123	309									
46	Purchased machinery installed.....do....	1,365	1,013	352	139	191	22,720	370	278	1,831	20,092	436	422
47	Capital expenditures, total.....do....	1,263	855	408	181	196	105,609	862	614	2,483	101,565	566	533
48	Development and exploration of mineral properties.....do....	xxx	xxx	xxx	xxx	xxx	16,927	290	247	39	16,499	91	85
49	Preparation plant and other construction.....do....	34	(10)	(10)	...	(10)	65,265	131	80	329	64,578	79	70
50	New machinery and equipment.....do....	1,155	805	350	181	{ 147	22,325	352	215	2,115	19,660	393	376
51	Used plant and equipment.....do....	74	1050	1058				1049	1,092	89	72	...	828

See footnotes at end of table.

## and Selected Types of Operation: 1958—Continued

1094—Uranium-radium-vanadium ores industries—Continued														1099— Metallic ores, nec industry	
Mountain						Pacific		By selected types of operation							
All opera- tions	Wyoming	Colorado	New Mexico	Arizona	Utah	All opera- tions	Washington	Mines only			Mines with preparation plants	Preparation plants only			
								Open-pit	Underground						
									Open- stopping	Other					
548	64	227	49	35	160	29	13	76	330	21	10	20	66	1	
490	61	205	38	29	144	27	12	74	308	15	1	1	64	2	
39	...	17	6	5	11	2	1	1	20	6	4	9	2	3	
19	3	5	5	1	5	...	...	1	2	...	5	10	...	4	
529	62	218	47	34	155	29	13	76	330	21	10	...	62	5	
27	4	10	6	1	6	2	1	...	...	...	10	20	9	6	
5,272	612	836	2,196	222	1,403	171	153	697	2,650	161	1,822	254	xxx	7	
324,039	32,874	87,773	77,394	12,855	113,088	6,635	6,574	12,572	67,053	7,661	76,102	168,713	3,018	8	
105,300 218,739	32,874	{ 31,413 56,360 }	{ 14,903 62,491 }	12,855	{ 44,930 68,158 }	6,635	6,574	{ 12,572 ...	{ 67,053 ...	{ 7,661 ...	{ 13,474 62,628 }	{ 95,978 72,735 }	3,018	9 10	
218,739	(D) (D)	{ 56,279 81 }	{ 62,491 (D) (D) }	(D) (D)	{ 66,737 1,421 }	(D) 82	(D) 81	{ 12,513 59 }	{ 65,726 1,327 }	{ 7,483 178 }	{ 62,491 137 }	{ 72,514 221 }	(D) 78	11 12	
167,557	18,046	29,176	62,787	7,980	49,545	5,238	3,696	9,049	56,513	6,934	65,590	33,403	1,847	13	
8,092	613	2,748	2,219	533	1,927	210	110	375	2,684	321	1,898	2,593	296	14	
6,121	453	1,990	1,801	473	1,374	162	83	259	2,077	237	1,512	1,865	187	15	
5,723	252	2,025	1,446	493	1,481	136	85	214	1,952	221	1,287	1,844	220	16	
5,718	259	2,020	1,516	492	1,405	132	84	202	1,956	223	1,311	1,787	174	17	
5,665	329	1,863	1,573	501	1,373	136	86	195	1,917	232	1,343	1,769	219	18	
6,022	451	1,973	1,649	486	1,433	135	89	275	2,087	232	1,374	1,811	187	19	
6,010	493	1,934	1,695	483	1,372	155	87	299	2,068	236	1,401	1,818	187	20	
6,221	493	2,009	1,812	478	1,393	175	88	299	2,120	232	1,450	1,906	185	21	
6,461	491	2,074	1,964	470	1,425	189	85	288	2,189	233	1,601	1,963	187	22	
6,471	487	2,055	2,053	465	1,374	160	81	287	2,171	240	1,627	1,938	176	23	
6,445	497	1,994	2,071	469	1,380	194	81	287	2,174	243	1,664	1,904	189	24	
6,407	521	1,977	2,063	437	1,378	206	78	249	2,190	253	1,660	1,906	171	25	
6,406	511	1,973	2,076	438	1,380	206	76	261	2,191	260	1,683	1,876	170	26	
6,373	481	1,937	2,128	441	1,358	220	76	247	2,133	264	1,737	1,869	174	27	
1,488	125	510	383	34	417	36	25	61	262	62	386	728	50	28	
483	35	248	35	26	136	12	2	55	345	22	...	...	59	29	
271	27	143	13	17	71	8	2	32	195	10	...	...	41	30	
13,286	1,038	4,181	4,197	978	2,835	345	179	593	4,265	536	3,624	3,944	343	31	
7,853	594	2,230	2,454	811	1,707	...	...	593	4,265	536	1,879	...	148	32	
5,211	61	1,932	1,316	428	1,434	...	...	...	3,731	476	786	...	16	33	
1,298	409	48	485	321	30	345	179	490	...	...	539	...	81	34	
1,344	124	250	653	62	243	...	...	103	534	60	554	...	51	35	
5,433	444	1,951	1,743	167	1,128	...	...	...	...	...	1,745	3,944	195	36	
1,908	47	400	885	377	174	129	20	294	363	53	933	23	59	37	
276,229	27,257	77,187	88,452	7,708	75,308	6,724	3,442	8,580	28,985	2,494	75,595	167,284	2,506	38	
33,078	2,618	9,805	10,781	2,007	7,731	840	380	1,554	11,350	1,374	9,021	9,421	852	39	
9,580	714	2,883	3,011	213	2,656	233	124	334	1,608	296	2,913	4,560	211	40	
55,262	14,278	{ 23,772 31,413 }	{ 12,248 14,903 }	4,644	{ 14,352 44,930 }	2,580	92,826	{ 1,143 ...	{ 5,944 ...	{ 525 ...	{ 11,790 13,474 }	{ 36,447 95,978 }	1,196	41 42	
4,283	377	1,686	1,227	275	700	153	76	305	1,187	75	1,044	1,544	143	43	
2,418	167	983	605	61	602	43	36	5	383	24	553	1,535	48	44	
66,308	9,103	6,645	45,677	508	4,337	2,875	(9)	5,239	8,513	200	36,800	17,799	56	45	
19,379	583	11,381	4,789	316	2,297	277	27	501	3,374	291	2,815	12,678	427	46	
96,468	9,680	17,283	64,842	929	3,675	4,531	87	3,670	8,861	388	55,964	30,671	699	47	
15,827	4,431	1,213	8,811	528	809	581	39	2,967	4,501	124	7,385	355	99	48	
60,839	4,471	4,978	50,602	58	726	3,660	(10)	18	828	8	45,284	17,970	227	49	
19,135	561	10,864	5,364	320	2,011	132	31	385	3,265	222	3,135	...	198	50	
667	217	228	65	23	129	158	1017	300	267	34	160	12,346	175	51	



Table 3.—Detailed Statistics for Industries. Selected Areas,

Item	108--Metal mining services industries	1081--Metal mining stripping services industry	1082--Metal mining services, except stripping industry				109--Miscellaneous metal ores industries	1092--Mercury ores industry		1093--Titanium ores industry	1094--Uranium-radium-vanadium ores industry		
			All operations	By principal industry served		All operations		Pacific	United States total		East and South		
				Iron ores services	Uranium-radium-vanadium ores services						All operations	South Dakota	
1 Energy used.....million kwh equivalent..	340	143	197	64	84	2,944	129	77	426	2,344	27	20	
2 Coal.....1,000 short tons..	(11)	...	(11)	(11)	...	31	...	...	25	...	...	...	
3 Fuel oil.....1,000 barrels..	67	51	16	12	5	300	51	27	68	165	3	3	
4 Gas.....million cu. ft..	...	...	...	...	...	4,256	9	9	...	4,242	...	...	
5 Other fuels and undistributed <sup>1,2</sup> ....\$1,000..	894	213	681	175	299	2,261	124	79	90	1,996	76	50	
6 Electric energy purchased.....million kwh..	3	3	(11)	(11)	(11)	319	8	8	96	212	3	3	
7 Electric energy generated and used.....do....	(11)	...	(11)	...	(11)	56	7	(D)	...	48	(11)	(11)	

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Represents production. For the Mercury Ores Industry, represents flasks (76 pounds each) of mercury metal. For the Titanium Ores Industry, represents short tons of titanium (ilmenite and rutile) concentrates. For the Uranium-Radium-Vanadium Ores Industry, represents thousands of short tons of crude uranium-vanadium ores.

<sup>2</sup>Represents uranium-vanadium concentrates produced.

<sup>3</sup>Custom plants in the Mercury Ores; Uranium-Radium-Vanadium Ores, and Metallic Ores, NEC Industries received \$6,227 thousand for preparation on a custom or toll basis. These receipts are not included in the total value of shipments and receipts in order to avoid duplication since the value of custom concentrates shipped is already included in the total value of shipments.

<sup>4</sup>For metal mining services industries, represents man-hours on exploration work, including geophysical and other exploratory surveying.

<sup>5</sup>For metal mining services industries, represents man-hours on stripping overburden.

## and Selected Types of Operation: 1958--Continued

1094--Uranium-radium-vanadium ores Industry--Continued													1099-- Metallic ores, nec industry	
Mountain						Pacific		By selected types of operation						
All operations	Wyoming	Colorado	New Mexico	Arizona	Utah	All operations	Washington	Mines only			Mines with preparation plants	Preparation plants only		
								Open-pit	Underground					
									Open- stopping	Other				
2,269 6 147 4,242 1,858 203  47	154 ... ... 173 335 17  ( <sup>11</sup> )	1,023 ( <sup>11</sup> ) 32 2,390 657 69  4	695 ... 73 1,450 302 48  42	72 ... 10 ... 204 4  ( <sup>11</sup> )	322 6 32 228 346 65  1	48 ... 15 ... 62 6  1	27 ... 9 ... 23 6  ...	76 ... 1 ... 297 ( <sup>11</sup> )  ( <sup>11</sup> )	375 ( <sup>11</sup> ) 36 135 970 30  10	23 ... 6 19 26 2  ( <sup>11</sup> )	577 ... 65 1,177 230 46  33	1,201 6 51 2,911 157 133  5	45 ... 16 5 51 3  1	1 2 3 4 5 6  7

<sup>6</sup>For metal mining services industries, represents man-hours on mining minerals for the account of others.

<sup>7</sup>For metal mining services industries, represents man-hours on other services, such as sinking mine shafts, driving mine tunnels, and drilling.

<sup>8</sup>Includes the cost of products bought and resold without further processing.

<sup>9</sup>The figures for the cost of contract or subcontract work are combined with the figures for the cost of supplies.

<sup>10</sup>Figures for capital expenditures for preparation plant and other construction are combined with figures for capital expenditures for used plant and equipment.

<sup>11</sup>Less than one-half the unit of measure indicated.

<sup>12</sup>Undistributed fuels costs were as follows: for Industry Group 108, \$150 thousand; for Industry 1081, \$63 thousand; for Industry 1082, \$87 thousand; for Industry Group 109, \$998 thousand; for Industry 1092, \$92 thousand; for Industry 1093, \$1 thousand; for Industry 1094, \$869 thousand; and for Industry 1099, \$36 thousand.



Table 4.—Selected Statistics for Establishments Classified by Employment Size for the United States: 1958

(For explanation of line captions see introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of--							
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees
1081	METAL MINING STRIPPING SERVICES:									
	Number of establishments.....	29	14	4	5	3	2	1	...	...
	All employees:									
	Number.....	553	20	25	67	96	345	(D)	...	...
	Payroll.....\$1,000..	2,672	66	107	348	491	1,660	(D)	...	...
	Production and development workers:									
	Number.....	505	20	18	62	89	316	(D)	...	...
	Man-hours.....1,000..	1,013	34	39	124	185	631	(D)	...	...
	Wages.....\$1,000..	2,357	66	73	323	450	1,445	(D)	...	...
	Value added in mining.....do....	8,472	185	220	640	818	6,609	(D)	...	...
	Value of shipments and receipts.....do....	10,270	257	304 {	761	1,252 {	8,467	(D)	...	...
	Capital expenditures.....do....	855	43		41		(D)	...	...	
	<u>Number of Establishments by Principal Industry Served</u>									
	Iron ores services.....	8	3	...	2	1	2	...	...	...
	Copper ores services.....	1	...	...	...	...	...	1	...	...
	Lead and zinc ores services.....	2	1	1	...	...	...	...	...	...
	Bauxite services.....	2	...	2	...	...	...	...	...	...
	Manganese ores services.....	3	2	...	...	1	...	...	...	...
	Uranium-radium-vanadium ores services.....	13	8	1	3	1	...	...	...	...
1082	METAL MINING SERVICES, NEC:									
	Number of establishments.....	66	34	9	6	8	3	6	...	...
	All employees:									
	Number.....	1,631	63	59	86	270	279	874	...	...
	Payroll.....\$1,000..	9,425	230	245	422	1,497	1,633	5,398	...	...
	Production and development workers:									
	Number.....	1,468	58	50	77	244	204	835	...	...
	Man-hours.....1,000..	3,261	101	104	175	493	476	1,912	...	...
	Wages.....\$1,000..	8,267	206	220	369	1,325	1,125	5,022	...	...
	Value added in mining.....do....	14,390	647	546	677	2,464	2,562	7,494	...	...
	Value of shipments and receipts.....do....	22,114	923	724	1,079	3,417 } 35	3,586	12,521	...	...
	Capital expenditures.....do....	408	55	59	123		(D)	...	...	
	<u>Number of Establishments by Principal Industry Served</u>									
	Iron ores services.....	9	3	...	1	2	1	2	...	...
	Copper ores services.....	10	2	2	1	2	1	2	...	...
	Lead and zinc ores services.....	10	8	1	1	...	...	...	...	...
	Lode gold services.....	1	1	...	...	...	...	...	...	...
	Manganese ores services.....	2	...	2	...	...	...	...	...	...
	Uranium-radium-vanadium ores services.....	33	19	4	3	4	1	2	...	...
	Metallic ores, nec services.....	1	1	...	...	...	...	...	...	...
1092	MERCURY ORES:									
	Number of establishments.....	79	59	6	5	5	3	1	...	...
	All employees:									
	Number.....	652	44	33	63	117	395	(D)	...	...
	Payroll.....\$1,000..	3,112	139	149	382	448	1,994	(D)	...	...
	Production and development workers:									
	Number.....	569	41	26	53	105	344	(D)	...	...
	Man-hours.....1,000..	1,223	80	57	127	214	745	(D)	...	...
	Wages.....\$1,000..	2,627	128	120	317	399	1,663	(D)	...	...
	Value added in mining.....do....	7,093	456	169	689	1,193	4,586	(D)	...	...
	Value of shipments and receipts.....do....	8,607	500	276	924	1,318	5,589	(D)	...	...
	Capital expenditures.....do....	862	300	36	297	107	122	(D)	...	...
	Number of producing establishments, by type of operation, total.....	67	48	5	5	5	3	1	...	...
	Open-pit mines:									
	Without preparation plants.....	4	3	1	...	...	...	...	...	...
	With preparation plants.....	40	34	1	3	2	...	...	...	...
	Combination open-pit and underground mines:									
	Without preparation plants.....	1	...	...	...	...	1	...	...	...
	With preparation plants.....	1	1	...	...	...	...	...	...	...
	Underground mines with preparation plants, by mining method:									
	Shrinkage stoping.....	1	...	...	...	...	1	...	...	...
	Square setting.....	7	2	2	...	1	1	...	...	...
	Other underground mining methods.....	12	8	1	1	2	...	...	...	...
	Preparation plants only.....	1	...	...	1	...	...	...	...	...

See footnotes at end of table.

Table 4.—Selected Statistics for Establishments Classified by Employment Size for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of--							
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees
1093	TITANIUM ORES:									
	Number of establishments.....	11	2	...	2	2	1	3	1	...
	All employees:									
	Number.....	962	31	...	(D)	152	(D)	779	(D)	...
	Payroll.....\$1,000..	4,496	149	...	(D)	479	(D)	3,868	(D)	...
	Production and development workers:									
	Number.....	706	19	...	(D)	104	(D)	583	(D)	...
	Man-hours.....1,000..	1,234	39	...	(D)	175	(D)	1,020	(D)	...
	Wages.....\$1,000..	2,882	73	...	(D)	310	(D)	2,499	(D)	...
	Value added in mining.....do...	12,746	200	...	(D)	1,220	(D)	11,326	(D)	...
	Value of shipments and receipts.....do...	17,158	...	...	2,404	(D)	(D)	14,754	(D)	...
	Capital expenditures.....do...	2,483	118	...	(D)	(D)	...	2,365	(D)	...
	Number of producing establishments, by type of operation, total.....	9	...	...	2	2	1	3	1	...
	Open-pit mines with preparation plants, by preparation method:									
	Gravity and flotation.....	4	...	...	...	1	1	2	1	...
	Flotation.....	1	...	...	1	...	...	...	...	...
	Other.....	3	...	...	1	1	...	1	...	...
	Preparation plants only.....	1	...	...	1	...	...	...	...	...
1094	URANIUM-RADIUM-VANADIUM ORES:									
	Number of establishments.....	602	431	71	39	23	19	16	2	1
	All employees:									
	Number.....	7,939	557	458	546	758	1,360	2,638	1,622	(D)
	Payroll.....\$1,000..	44,422	2,279	2,194	2,582	4,470	8,213	15,376	9,308	(D)
	Production and development workers:									
	Number.....	6,389	517	373	462	652	1,125	2,041	1,219	(D)
	Man-hours.....1,000..	13,873	929	746	925	1,490	2,423	4,487	2,873	(D)
	Wages.....\$1,000..	34,439	2,070	1,790	2,250	3,783	6,433	11,163	6,950	(D)
	Value added in mining.....do...	174,802	6,268	4,531	15,179	11,903	26,613	65,815	44,493	(D)
	Value of shipments and receipts.....do...	336,451	8,937	6,678	16,857	21,205	53,563	151,477	77,734	(D)
	Capital expenditures.....do...	101,565	5,985	979	5,104	3,201	25,854	58,960	1,482	(D)
	Number of producing establishments, by type of operation, total.....	469	312	59	37	23	19	16	2	1
	Open-pit mines:									
	Without preparation plants.....	76	64	9	1	1	...	1	...	...
	With preparation plants.....	3	...	1	...	...	1	1	...	...
	Combination open-pit and underground mines:									
	Without preparation plants.....	12	7	1	1	1	1	1	...	...
	With preparation plants.....	1	...	...	...	...	...	...	...	1
	Underground mines, by mining method:									
	Without preparation plants:									
	Open-stopping.....	330	233	43	32	12	8	2	...	...
	Shrinkage stopping.....	2	1	...	...	1	...	...	...	...
	Square setting.....	3	2	1	...	...	...	...	...	...
	Cut-and-fill stopping.....	4	...	...	1	3	...	...	...	...
	Other.....	12	5	4	1	1	1	...	...	...
	With preparation plants:									
	Open-stopping.....	5	...	...	...	1	1	3	...	...
	Square setting.....	1	...	...	...	...	1	...	...	...
	Preparation plants only.....	20	...	...	1	3	6	8	2	...
1099	METALLIC ORES, NEC:									
	Number of establishments.....	66	54	5	5	1	1	...	...	...
	All employees:									
	Number.....	237	53	36	148	(D)	(D)	...	...	...
	Payroll.....\$1,000..	1,063	177	77	809	(D)	(D)	...	...	...
	Production and development workers:									
	Number.....	187	49	29	109	(D)	(D)	...	...	...
	Man-hours.....1,000..	343	85	39	219	(D)	(D)	...	...	...
	Wages.....\$1,000..	852	165	70	617	(D)	(D)	...	...	...
	Value added in mining.....do...	1,847	173	1,674	(D)	(D)	(D)	...	...	...
	Value of shipments and receipts.....do...	3,018	274	2,744	(D)	(D)	(D)	...	...	...
	Capital expenditures.....do...	699	127	4	56	(D)	...	...	...	...

See footnotes at end of table.



Table 4.—Selected Statistics for Establishments Classified by Employment Size for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of--							
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees
1099	METALLIC ORES, NEC—Continued									
	Number of producing establishments, by type of operation, total.....	50	41	3	4	1	1	...	...	...
	Mines only:									
	Open-pit.....	36	33	2	1	...	...	...	...	...
	Underground, by mining method:									
	Open-stopping.....	2	1	1	...	...	...	...	...	...
	Square setting.....	1	1	...	...	...	...	...	...	...
	Other.....	3	3	...	...	...	...	...	...	...
	Mines with preparation plants:									
	Open-pit.....	3	2	...	...	1	...	...	...	...
	Underground.....	1	...	...	1	...	...	...	...	...
	Preparation plants only.....	4	1	...	2	...	1	...	...	...

D Withheld to avoid disclosing figures for individual companies.

Table 5.—Industry Product Analysis, Summary of Industry Shipments and Receipts and Net Shipments of Primary Products for the United States: 1958 and 1954

Ind. code	Industry and year	Value of shipments and receipts of establishments classified in the industry					Value of net shipments of primary products of the industry shipped by establishments in all industries or receipts for primary services by all industries		
		Total	Primary products or services	Secondary products	Receipts for secondary services	Products purchased and resold without further processing	Total (produced or performed in all industries)	Produced or performed in this industry	Produced or performed in other industries
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1081	Metal mining stripping services..1958..	10,270	(D)	...	(D)	...	10,886	(D)	(D)
	1954..	20,545	20,406	...	(D)	(D)	120,646	20,406	1240
1082	Metal mining services, nec.....1958..	22,114	(D)	...	(D)	...	21,377	(D)	(D)
	1954..	18,134	(D)	...	1,388	(D)	116,716	(D)	(D)
1092	Mercury ores.....1958..	8,607	(D)	...	(D)	(D)	28,402	28,402	...
	1954..	4,519	4,519	...	...	...	(D)	(D)	...
1093	Titanium ores.....1958..	17,158	(D)	(D)	(D)	(D)	12,365	(D)	(D)
	1954..	12,750	8,647	4,103	...	...	(D)	(D)	...
1094	Uranium-radium-vanadium ores.....1958..	336,451	(D)	(D)	1,475	...	224,931	(D)	(D)
	1954..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1099	Metallic ores, nec.....1958..	3,018	2,940	78	...	...	3,551	(D)	(D)
	1954..	1,325	1,289	36	...	...	(D)	(D)	...

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Represents services performed in the Metal Mining Services Industries only.<sup>2</sup>Represents gross shipments of mercury metal only.<sup>3</sup>Represents gross shipments of titanium concentrates.

Table 6A.—Primary Products of the Metal Mining Services and Miscellaneous Metal Ores Industries Produced or Performed in All Industries, by Regions and States: 1958 and 1954

Type of service, region, and State	Total receipts for services (\$1,000)	
	1958	1954 <sup>1</sup>
METAL MINING SERVICES		
United States, total.....	32,263	37,362
Stripping overburden.....	5,128	12,533
Strip mining minerals for others.....	5,758	8,113
Exploration work, including geophysical and other exploratory surveying.....	2,215	914
Prospect and test drilling.....	11,523	10,363
Other drilling, including blasting.....	621	
Sinking mine shafts and driving mine tunnels.....	7,018	
Other services primary to the metal mining services industries.....	(2)	714
East and South, total <sup>3</sup> .....	9,920	(NA)
Stripping overburden and strip mining of minerals for others.....	2,869	(NA)
Exploration work, including geophysical and other exploratory surveying, and sinking mine shafts and driving mine tunnels.....	2,688	(NA)
Prospect and test drilling.....	4,232	(NA)
Other drilling, including blasting.....	131	(NA)
West, total <sup>3</sup> .....	22,343	(NA)
Stripping overburden and strip mining minerals for others.....	8,017	(NA)
Exploration work, including geophysical and other exploratory surveying, and sinking mine shafts and driving mine tunnels.....	6,545	(NA)
Prospect and test drilling.....	7,291	(NA)
Other drilling, including blasting, and other services primary to the metal mining services industries.....	490	(NA)
Colorado, total <sup>3</sup> .....	3,785	(NA)
Stripping overburden and strip mining minerals for others.....	307	(NA)
Exploration work, including geophysical and other exploratory surveying, and sinking mine shafts and driving mine tunnels.....	1,481	(NA)
Prospect and test drilling.....	1,650	(NA)
Other drilling, including blasting, and other services primary to the metal mining services industries.....	347	(NA)

See footnotes at end of table.



Table 6A.—Primary Products of the Metal Mining Services and Miscellaneous Metal Ores Industries Produced or Performed in All Industries, by Regions and States: 1958 and 1954—Continued

Product, region, and State	Unit of measure	1958			1954		
		Total production (quantity)	Total shipments (including interplant transfers) or receipts of minerals		Total production (quantity)	Total shipments (including interplant transfers) or receipts of minerals	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
MERCURY ORES							
United States, total: <sup>4</sup>							
Production and shipments:							
Crude mercury ore.....	Short tons.....	399,543	(D)	(D)	175,373	(D)	54,519
Mercury metal.....	Flasks (76 lbs.)	33,812	37,144	8,402	17,487	18,995	
Minerals prepared.....	Short tons.....	<sup>e</sup> 395,631	( <sup>e</sup> )	(D)	<sup>e</sup> 173,027	( <sup>e</sup> )	(D)
West South Central and Mountain:							
Production and shipments:							
Crude mercury ore.....	...do.....	192,102	(D)	(D)	(NA)	(NA)	(NA)
Mercury metal.....	Flasks (76 lbs.)	9,935	12,745	2,845	(NA)	(NA)	(NA)
Minerals prepared.....	Short tons.....	<sup>e</sup> 186,906	( <sup>e</sup> )	(D)	43,529	...	...
Pacific:							
Production and shipments:							
Crude mercury ore.....	...do.....	207,441	(D)	(D)	(NA)	(NA)	(NA)
Mercury metal.....	Flasks (76 lbs.)	23,877	24,399	5,557	(NA)	(NA)	(NA)
Minerals prepared.....	Short tons.....	<sup>e</sup> 208,725	( <sup>e</sup> )	(D)	<sup>e</sup> 129,498	( <sup>e</sup> )	(D)
California:							
Production and shipments:							
Crude mercury ore.....	...do.....	155,058	(D)	(D)	123,197	(D)	(D)
Mercury metal.....	Flasks (76 lbs.)	21,334	21,512	4,909	11,260	11,337	<sup>e</sup> 2,987
Minerals prepared.....	Short tons.....	<sup>e</sup> 156,038	( <sup>e</sup> )	(D)	(NA)	(NA)	(NA)
TITANIUM ORES							
United States:							
Production and shipments:							
Crude titanium ores mined.....	1,000 short tons	13,244	...	...	(NA)	(NA)	78,647
Titanium concentrates, total.....	Short tons.....	605,522	597,523	12,365	557,276	541,519	
Ilmenite concentrates.....	...do.....	595,265	591,464	11,590	547,981	531,924	77,455
Rutile concentrates.....	...do.....	10,257	6,059	775	9,295	9,595	1,192
Minerals prepared.....	1,000 short tons	<sup>e</sup> 13,169	( <sup>e</sup> )	(D)	(NA)	(NA)	(NA)
URANIUM-RADIUM-VANADIUM ORES							
United States, total:							
Production and shipments:							
Crude uranium-vanadium ores.....	1,000 short tons	5,480.2	3,621.8	91,303	(NA)	(NA)	(NA)
From underground operations.....	...do.....	3,129.8	xxx	xxx	(NA)	(NA)	(NA)
From open-pit operations.....	...do.....	2,350.4	xxx	xxx	(NA)	(NA)	(NA)
Uranium-vanadium concentrates.....	...do.....	58.5	58.7	243,080	(NA)	(NA)	(NA)
Minerals prepared.....	...do.....	1,533.9	4,432.5	109,452	(NA)	(NA)	(NA)
East and South:							
Production and shipments:							
Crude uranium-vanadium ores.....	...do.....	37.2	37.2	565	(NA)	(NA)	(NA)
From underground operations.....	...do.....	33.9	xxx	xxx	(NA)	(NA)	(NA)
From open-pit operations.....	...do.....	3.3	xxx	xxx	(NA)	(NA)	(NA)
South Dakota:							
Production and shipments:							
Crude uranium-vanadium ores.....	...do.....	36.6	36.6	556	(NA)	(NA)	(NA)
From underground operations.....	...do.....	33.3	xxx	xxx	(NA)	(NA)	(NA)
From open-pit operations.....	...do.....	3.3	xxx	xxx	(NA)	(NA)	(NA)
Mountain:							
Production and shipments:							
Crude uranium-vanadium ores.....	...do.....	5,271.6	3,569.5	90,372	(NA)	(NA)	(NA)
From underground operations.....	...do.....	3,076.3	xxx	xxx	(NA)	(NA)	(NA)
From open-pit operations.....	...do.....	2,195.3	xxx	xxx	(NA)	(NA)	(NA)
Minerals prepared.....	...do.....	(D)	4,138.1	105,300	(NA)	(NA)	(NA)
Wyoming:							
Production and shipments:							
Crude uranium-vanadium ores.....	...do.....	612.0	541.5	10,314	(NA)	(NA)	(NA)
From underground operations.....	...do.....	24.4	xxx	xxx	(NA)	(NA)	(NA)
From open-pit operations.....	...do.....	587.6	xxx	xxx	(NA)	(NA)	(NA)

See footnotes at end of table.

Table 6A.—Primary Products of the Metal Mining Services and Miscellaneous Metal Ores Industries Produced or Performed in All Industries, by Regions and States: 1958 and 1954—Continued

Product, region, and State	Unit of measure	1958			1954		
		Total production (quantity)	Total shipments (including interplant transfers) or receipts of minerals		Total production (quantity)	Total shipments (including interplant transfers) or receipts of minerals	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
URANIUM-RADIUM-VANADIUM ORES--Continued							
Mountain--Continued							
Colorado:							
Production and shipments:							
Crude uranium-vanadium ores.....	1,000 short tons	836.0	794.1	18,623	(NA)	(NA)	(NA)
From underground operations.....	..do.....	810.3	xxx	xxx	(NA)	(NA)	(NA)
From open-pit operations.....	..do.....	25.7	xxx	xxx	(NA)	(NA)	(NA)
Uranium-vanadium concentrates.....	..do.....	30.3	30.9	69,069	(NA)	(NA)	(NA)
Minerals prepared.....	..do.....	...	1,423.1	31,413	(NA)	(NA)	(NA)
New Mexico:							
Production and shipments:							
Crude uranium-vanadium ores.....	..do.....	2,196.2	705.2	9,952	(NA)	(NA)	(NA)
From underground operations.....	..do.....	818.8	xxx	xxx	(NA)	(NA)	(NA)
From open-pit operations.....	..do.....	1,377.4	xxx	xxx	(NA)	(NA)	(NA)
Uranium-vanadium concentrates.....	..do.....	4.6	4.5	67,200	(NA)	(NA)	(NA)
Minerals prepared.....	..do.....	1,310.3	687.0	14,903	(NA)	(NA)	(NA)
Arizona:							
Production and shipments:							
Crude uranium-vanadium ores.....	..do.....	221.5	222.5	6,864	(NA)	(NA)	(NA)
From underground operations.....	..do.....	149.0	xxx	xxx	(NA)	(NA)	(NA)
From open-pit operations.....	..do.....	72.5	xxx	xxx	(NA)	(NA)	(NA)
Utah:							
Production and shipments:							
Crude uranium-vanadium ores.....	..do.....	1,402.7	1,303.0	44,565	(NA)	(NA)	(NA)
From underground operations.....	..do.....	1,270.7	xxx	xxx	(NA)	(NA)	(NA)
From open-pit operations.....	..do.....	132.0	xxx	xxx	(NA)	(NA)	(NA)
Uranium-vanadium concentrates.....	..do.....	21.3	21.0	67,102	(NA)	(NA)	(NA)
Minerals prepared.....	..do.....	...	1,344.1	44,930	(NA)	(NA)	(NA)
Pacific:							
Production and shipments:							
Crude uranium-vanadium ores.....	..do. ....	171.4	15.1	366	(NA)	(NA)	(NA)
From underground operations.....	..do.....	19.6	xxx	xxx	(NA)	(NA)	(NA)
From open-pit operations.....	..do.....	151.8	xxx	xxx	(NA)	(NA)	(NA)
Washington:							
Production and shipments:							
Crude uranium-vanadium ores.....	..do.....	153.2	11.7	306	(NA)	(NA)	(NA)
From underground operations.....	..do.....	1.4	xxx	xxx	(NA)	(NA)	(NA)
From open-pit operations.....	..do.....	151.8	xxx	xxx	(NA)	(NA)	(NA)
Beryllium concentrates.....	Short tons.....	474	474	213	<sup>a</sup> 550	<sup>a</sup> 650	<sup>a</sup> 320
Zirconium concentrates.....	..do.....	36,458	40,734	1,678	20,000	20,000	1,029
Thorite (crude).....	..do.....	702	702	34	(NA)	(NA)	(NA)
Bastnaesite and monazite concentrates.....	..do.....	5,663	1,074	250	(NA)	(NA)	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Figures for 1954 represent only receipts by establishments classified in the Metal Mining Services Industries.

<sup>2</sup>Figures for receipts for "Other services" are combined with figures for "Other drilling, including blasting."

<sup>3</sup>Regional and State figures in this table are based on the classification of contractor reports according to the principal State in which services were performed. Hence, all services by each contractor are, in general, assigned to the Region and State in which the principal services were performed.

<sup>4</sup>In addition, between 6,000 and 8,000 short tons of crude mercury ores were mined in Alaska, from which between 2,000 and 4,000 flasks of mercury metal were produced and shipped, valued at between \$600 and \$800 thousand.

<sup>5</sup>The value of crude mercury ore was less than 0.1 percent of the total for the United States.

<sup>6</sup>The figures for minerals received from other establishments for preparations are combined with those for minerals produced and prepared at the same establishment. For mercury ore in the United States, the quantity of minerals received from others represents less than 20 percent of the figure shown for 1958, and less than 2 percent for 1954.

<sup>7</sup>Includes the value of titanium ore shipped for preparation, amounting to less than 1 percent of the total shown for all titanium ores and concentrates.

<sup>8</sup>Represents an estimate on the basis of information reported on receipts of beryllium ores at preparation plants.



Table 6B—Shipments of Selected Primary Products of the Miscellaneous Metal Ores Industries  
Distributed by Unit Values: 1958

Product and average value per unit f.o.b. mine or plant <sup>1</sup>	Unit of measure	Quantity shipped		Value of shipments	
		Quantity	Percent of total quantity	Value (\$1,000)	Percent of total value
Mercury metal, total.....	Flasks (76 lbs.)	37,144	100.0	8,402	100.0
Less than \$205.00.....	...do.....	395	1.1	72	0.9
\$205.00-\$229.99.....	...do.....	23,206	62.5	5,195	61.8
\$230.00 and over.....	...do.....	13,543	36.4	3,135	37.3
Ilmenite concentrates, total.....	Short tons.....	591,464	100.0	11,590	100.0
Less than \$18.00.....	...do.....	373,077	63.1	5,244	45.2
\$18.00 and over.....	...do.....	218,387	36.9	6,346	54.8
Crude uranium-vanadium ores.....	1,000 short tons	3,621.8	100.0	91,303	100.0
\$5.80-\$6.14.....	...do.....	58.8	1.6	324	0.4
\$6.15-\$8.84.....	...do.....	334.2	9.2	2,500	2.7
\$8.85-\$11.19.....	...do.....	76.4	2.1	769	0.8
\$11.20-\$12.59.....	...do.....	45.1	1.2	522	0.6
\$12.60-\$14.19.....	...do.....	99.2	2.7	1,342	1.5
\$14.20-\$15.99.....	...do.....	497.0	13.8	7,438	8.1
\$16.00-\$17.99.....	...do.....	352.7	9.8	5,953	6.5
\$18.00-\$20.49.....	...do.....	608.0	16.8	11,902	13.0
\$20.50-\$22.99.....	...do.....	300.0	8.3	6,454	7.1
\$23.00-\$25.99.....	...do.....	89.4	2.5	2,191	2.4
\$26.00-\$29.49.....	...do.....	169.5	4.7	4,646	5.1
\$29.50-\$33.49.....	...do.....	83.8	2.3	2,648	2.9
\$33.50-\$37.99.....	...do.....	434.8	12.0	15,420	16.9
\$38.00-\$42.99.....	...do.....	17.6	0.5	713	0.8
\$43.00-\$48.99.....	...do.....	121.3	3.3	5,468	6.0
\$49.00-\$61.49.....	...do.....	196.2	5.4	10,933	12.0
\$61.50 and over.....	...do.....	137.8	3.8	12,080	13.2
Uranium-vanadium concentrates.....	...do.....	58.7	100.0	243,080	100.0
Less than \$5,450.....	...do.....	45.0	76.7	28,773	11.8
\$12,000-\$14,199.....	...do.....	3.7	6.3	45,578	18.8
\$14,200-\$15,999.....	...do.....	5.1	8.7	77,160	31.7
\$16,000-\$17,999.....	...do.....	3.3	5.6	53,016	21.8
\$18,000 and over.....	...do.....	1.6	2.7	38,553	15.9

<sup>1</sup>For mercury metal, represents value for flask; for ilmenite concentrates and for crude uranium-vanadium ores and uranium-vanadium concentrates, represent value per short ton. The "average values" are based on the entire shipments of the specified product by each establishment. Thus they are representative of varied average prices among establishments but not of variations within an establishment.

Table 7.—Supplies Used in the Miscellaneous Metal Ores Industries, by Selected Regions and States:  
1958 and 1954

Ind. code	Supplies used, region, and State	Unit of measure	1958		1954	
			Quantity	Cost (\$1,000)	Quantity	Cost (\$1,000)
1092	MERCURY ORES					
	<u>United States</u>					
	Supplies used, total.....		xxx	<sup>1</sup> 1,462	xxx	<sup>1</sup> 1,160
	Explosives.....	1,000 pounds.....	311	73	310	64
	Steel-mill shapes and forms.....	Short tons.....	124	24	163	24
	All other supplies.....		xxx	<sup>1</sup> 1,161	xxx	<sup>1</sup> 1,072
	Undistributed.....		xxx	204	xxx	...
1093	TITANIUM ORES					
	<u>United States</u>					
	Supplies used, total.....		xxx	<sup>2</sup> 3,252	xxx	<sup>1</sup> 2,801
	Explosives.....	1,000 pounds.....	2,210	334	<sup>3</sup> 1,014	<sup>2</sup> 287
	Steel-mill shapes and forms.....	Short tons.....	1,263	276	<sup>3</sup> 4,173	<sup>1</sup> 3,619
	All other supplies.....		xxx	<sup>2</sup> 2,633	xxx	<sup>1</sup> 2,550
	Undistributed.....		xxx	9	xxx	...
1094	URANIUM-RADIUM-VANADIUM ORES					
	<u>United States</u>					
	Supplies used, total.....		xxx	57,027	xxx	9,844
	Explosives.....	1,000 pounds.....	11,879	1,479	(NA)	
	Steel-mill shapes and forms.....	Short tons.....	4,941	1,151	(NA)	
	All other supplies.....		xxx	53,004	xxx	(NA)
	Undistributed.....		xxx	1,393	xxx	
	<u>Region and State</u>					
	Mountain:					
	Supplies used, total.....		xxx	55,262	xxx	9,736
	Explosives.....	1,000 pounds.....	11,792	1,459	(NA)	
	Steel-mill shapes and forms.....	Short tons.....	4,777	1,124	(NA)	
	All other supplies.....		xxx	51,365	xxx	(NA)
	Undistributed.....		xxx	1,314	xxx	
	Colorado:					
	Supplies used, total.....		xxx	23,772	xxx	
	Explosives.....	1,000 pounds.....	2,523	331	(NA)	
	Steel-mill shapes and forms.....	Short tons.....	1,871	446	(NA)	
	All other supplies.....		xxx	22,523	xxx	(NA)
	Undistributed.....		xxx	472	xxx	
	New Mexico:					
	Supplies used, total.....		xxx	12,248	xxx	
	Explosives.....	1,000 pounds.....	5,594	517	(NA)	
	Steel-mill shapes and forms.....	Short tons.....	1,993	497	(NA)	
	All other supplies.....		xxx	11,055	xxx	(NA)
	Undistributed.....		xxx	179	xxx	
	Utah:					
	Supplies used, total.....		xxx	14,352	xxx	
	Explosives.....	1,000 pounds.....	2,466	424	(NA)	
	Steel-mill shapes and forms.....	Short tons.....	710	134	(NA)	
	All other supplies.....		xxx	13,328	xxx	(NA)
	Undistributed.....		xxx	466	xxx	
1099	METALLIC ORES, NEC					
	<u>United States</u>					
	Supplies used, total.....		xxx	<sup>1</sup> 1,196	xxx	<sup>1</sup> 655
	Explosives.....	1,000 pounds.....	28	6	( <sup>3</sup> )	( <sup>3</sup> )
	Steel-mill shapes and forms.....	Short tons.....	2	1	( <sup>3</sup> )	( <sup>3</sup> )
	All other supplies.....		xxx	<sup>1</sup> 828	xxx	( <sup>3</sup> )
	Undistributed.....		xxx	361	xxx	...

NA Not available.

<sup>1</sup>Includes the cost of minerals received from other establishments for preparation.<sup>2</sup>Includes the cost of minerals received from other establishments for preparation and the cost of purchases for resale without further processing.<sup>3</sup>Figures for the Metallic Ores, NEC Industry are included with those for the Titanium Ores Industry.



Table 8.—General Statistics for Establishments in the United States Classified by Output Per-Hour, by Selected Types of Operation: 1958

Ind. code	Industry, type of operation, and units per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1092	MERCURY ORES:									
	All establishments, total.....	79	652	3,112	569	1,223	2,627	7,093	8,607	862
	Less than 0.010.....	9	54	235	46	107	204	82	102	205
	0.010-0.019.....	4	63	292	56	122	255	463	494	82
	0.020-0.029.....	4	353	1,725	305	658	1,420	3,127	4,096	111
	0.030-0.039.....	3								
	0.040 and over.....	4								
	Undistributed <sup>2</sup> .....	55	58	239	46	87	165	683	568	420
1094	URANIUM-RADIUM-VANADIUM ORES:									
	All establishments, total.....	602	7,939	44,422	6,389	13,873	34,439	174,802	336,451	101,565
	Producing establishments, total.....	469	7,701	43,435	6,191	13,508	33,664	175,162	336,451	100,384
	Underground mines only, open-stopping, total.....	330	2,339	12,958	2,077	4,265	11,350	56,513	67,053	8,861
	Less than 0.050.....	13	29	131	26	53	115	176	36	182
	0.050-0.099.....	5	26	104	24	51	99	186	219	8
	0.10-0.19.....	14	193	933	173	378	819	1,478	1,800	184
	0.20-0.29.....	22	122	521	109	205	467	1,031	1,049	146
	0.30-0.39.....	27	215	1,181	195	414	1,004	3,139	3,207	845
	0.40-0.49.....	19	179	813	163	340	763	2,095	2,273	294
	0.50-0.59.....	8	46	281	38	85	253	1,139	1,218	79
	0.60-0.69.....	3	13	71	12	21	67	249	227	41
	0.70-0.79.....	7	181	1,398	164	367	1,238	9,838	10,512	319
	0.80-0.89.....	4	84	491	77	138	436	1,342	1,874	5
	0.90 and over.....	7	172	1,130	144	279	981	4,950	5,351	389
	Undistributed <sup>2</sup> .....	201	1,079	5,904	952	1,934	5,108	30,890	39,287	6,369
	Preparation plants only, total.....	20	2,593	13,981	1,865	3,944	9,421	33,403	168,713	30,671
	Less than 0.002.....	3	144	719	130	279	640	1,593	6,547	5,081
	0.002-0.009.....	10	1,652	8,592	1,226	2,524	6,053	29,452	103,633	1,834
	Undistributed <sup>2</sup> .....	7	797	4,670	509	1,141	2,728	2,358	58,533	23,756

<sup>1</sup>For the Mercury Ores Industry, represents flasks (76 pounds each) of mercury metal shipped per man-hour worked by production and development workers. For the Uranium-Radium-Vanadium Ores Industry represents: for open-stopping mines only, short tons of crude uranium-vanadium ores shipped and, for preparation plants only, short tons of uranium-vanadium concentrates shipped per man-hour worked by production and development workers.

<sup>2</sup>Represents establishments reporting no shipments of primary products, or no production and development worker man-hours, or cost of contract work amounting to 30 percent or more of production and development worker wages, or number of working proprietors amounting to 30 percent or more of number of production and development workers, or man-hours spent on development and exploration work amounting to 30 percent or more of total man-hours worked by production and development workers.

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Divisions: 1958

Ind. code	Industry, division, and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1081	METAL MINING STRIPPING SERVICES:									
	United States, total.....	29	553	2,672	505	1,013	2,357	8,472	10,270	855
	Less than 0.20.....	2								
	0.20-0.29.....	3								
	0.30-0.39.....	6								
	0.40-0.49.....	3								
	0.50-0.59.....	2								
	0.60-0.69.....	4								
	0.70-0.89.....	2								
	1.00 and over.....	1								
	Undistributed <sup>2</sup> .....	6	9	82	2	3	5	9	40	14
	East and South, total.....	8	161	965	131	268	749	1,586	2,251	43
	0.30-0.39.....	2								
	0.50-0.59.....	1								
	0.60-0.69.....	2								
	1.00 and over.....	1								
	Undistributed <sup>2</sup> .....	2	13	104	4	8	19	20	51	17
	West, total.....	21	392	1,707	374	745	1,608	6,886	8,019	812
	Less than 0.20.....	2								
	0.20-0.29.....	3								
	0.30-0.39.....	4								
	0.40-0.49.....	3								
	0.50-0.59.....	1								
	0.60-0.69.....	2								
	0.70-0.79.....	1								
	0.80-0.89.....	1								
	Undistributed <sup>2</sup> .....	4	16	72	16	36	72	97	182	20
1082	METAL MINING SERVICES, NEC, TOTAL.....	66	1,631	9,425	1,468	3,261	8,267	14,390	22,114	408
	Less than 0.10.....	5	9	26	9	12	26	155	191	17
	0.20-0.29.....	5	12	48	12	24	48	179	240	15
	0.30-0.39.....	7	293	1,526	275	591	1,386	4,079	5,049	102
	0.40-0.49.....	11	65	277	61	121	261	603	779	15
	0.50-0.59.....	13	179	1,052	167	370	979	1,926	2,737	105
	0.60-0.69.....	9	270	1,642	242	550	1,469	2,572	3,781	62
	0.70-0.79.....	4	143	1,245	134	319	1,102	1,600	2,596	5
	0.80-0.89.....	3	195	1,395	186	433	1,324	1,674	2,701	31
	0.90-0.99.....	3	182	796	167	367	704	871	1,422	4
	1.00 and over.....	2								
	Undistributed <sup>2</sup> .....	4	283	1,418	215	474	968	731	2,618	52
	East and South, total.....	19	680	3,315	640	1,372	3,026	4,588	7,695	196
	Less than 0.20.....	2								
	0.20-0.29.....	...								
	0.30-0.39.....	2								
	0.40-0.49.....	5	39	155	36	67	144	333	411	7
	0.50-0.59.....	3	45	294	39	75	266	500	543	8
	0.60-0.69.....	4	69	277	62	124	208	422	451	
	0.80-0.89.....	1								
	0.90-0.99.....	1								
	1.00 and over.....	1								
	West, total.....	47	951	6,110	828	1,889	5,241	9,802	14,419	212
	0.10-0.19.....	4								
	0.20-0.29.....	4								
	0.30-0.39.....	5								
	0.40-0.49.....	6	26	122	25	54	117	270	368	8
	0.50-0.59.....	10	134	758	128	295	713	1,426	2,194	97
	0.60-0.69.....	5	201	1,365	180	426	1,261	2,150	3,330	
	0.70-0.79.....	4	143	1,245	134	319	1,102	1,600	2,596	
	0.80-0.89.....	2								
	0.90-0.99.....	2								
	1.00 and over.....	1								
	Undistributed <sup>2</sup> .....	4	235	1,495	161	379	1,012	1,331	2,136	54
1092	MERCURY ORES, TOTAL.....	79	652	3,112	569	1,223	2,627	7,093	8,607	862
	Less than 0.10.....	2								
	0.10-0.19.....	2	25	117	25	47	116	779	850	57
	0.20-0.29.....	4								
	0.30-0.39.....	2	109	535	101	219	497	2,132	2,644	48
	0.40-0.49.....	6								
	0.50-0.59.....	2	295	1,507	251	535	1,219	2,966	3,383	464
	0.60-0.69.....	2								
	0.70-0.79.....	2								
	0.80-0.89.....	2								
	1.00 and over.....	3	31	174	29	61	153	208	380	9
	Undistributed <sup>2</sup> .....	8	53	215	45	98	185	74	81	136
		46	27	105	19	44	61	255	305	128

See footnotes at end of table.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Divisions: 1958—Continued

Ind. code	Industry, division, and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1093	TITANIUM ORES, TOTAL.....	11	962	4,496	706	1,234	2,882	12,746	17,158	2,483
	0.10-0.19.....	1	478	2,415	365	623	1,656	8,629	11,247	906
	0.20-0.29.....	2								
	0.30-0.39.....	2								
	0.40-0.49.....	1								
	0.80-0.89.....	1	425	1,802	298	525	1,108	3,979	5,714	1,577
	1.00 and over.....	1								
	Undistributed <sup>2</sup> .....	3								
	Undistributed <sup>2</sup> .....	3	59	279	43	86	118	138	197	
1094	URANIUM-RADIUM-VANADIUM ORES, TOTAL.....	602	7,939	44,422	6,389	13,873	34,439	174,802	336,451	101,565
	Less than 0.10.....	16	48	212	30	51	130	11,962	12,846	550
	0.10-0.19.....	55	2,421	14,611	1,926	4,479	11,522	97,748	136,623	11,697
	0.20-0.29.....	57	1,393	8,207	1,154	2,517	6,402	35,246	88,019	14,394
	0.30-0.39.....	43	1,217	7,172	949	2,059	5,357	20,820	41,342	43,765
	0.40-0.49.....	44	476	2,573	416	885	2,226	5,595	7,360	5,503
	0.50-0.59.....	27	806	3,832	753	1,718	3,542	6,715	22,753	201
	0.60-0.69.....	23	179	814	151	323	755	1,213	1,989	4,360
	0.70-0.79.....	8	94	334	84	170	298	455	940	183
	0.80-0.89.....	11	124	636	101	200	490	764	1,496	115
	0.90-0.99.....	5	50	236	43	91	203	254	346	109
	1.00 and over.....	61	582	2,762	454	837	2,057	1,934	12,401	9,273
	Undistributed <sup>2</sup> .....	252	549	3,033	328	543	1,457	( <sup>3</sup> )	10,336	11,415
	East and South, total.....	25	132	691	106	242	521	2,007	5,777	566
	Less than 0.10.....	1	74	385	65	152	304	1,734	5,435	463
	0.10-0.19.....	2								
	0.20-0.29.....	4								
	0.40-0.49.....	1								
	0.50-0.59.....	2	25	125	21	42	114	242	243	73
	0.60-0.69.....	1								
	1.00 and over.....	3								
	Undistributed <sup>2</sup> .....	11	19	95	9	22	35	2	11	30
	Mountain, total.....	548	7,609	42,658	6,121	13,286	33,078	167,557	324,039	96,468
	Less than 0.10.....	14	2,384	14,398	1,886	4,382	11,322	105,991	142,934	12,134
	0.10-0.19.....	51								
	0.20-0.29.....	53								
	0.30-0.39.....	41								
	0.40-0.49.....	41	1,424	7,041	1,292	2,870	6,377	13,187	31,773	9,938
	0.50-0.59.....	25								
	0.60-0.69.....	21								
	0.70-0.79.....	8	94	334	84	170	298	455	940	183
	0.80-0.89.....	11	124	636	101	200	490	764	1,496	115
	0.90-0.99.....	4	604	2,860	473	875	2,145	2,119	12,646	9,345
	1.00 and over.....	55								
	Undistributed <sup>2</sup> .....	224								
	Pacific, total.....	29	198	1,073	162	345	840	5,238	6,635	4,531
	Less than 0.10.....	1	151	908	126	281	710	5,089	6,429	4,429
	0.10-0.19.....	2								
	0.30-0.39.....	2								
	0.40-0.49.....	2								
	0.60-0.69.....	1	12	53	7	14	32	94	86	53
	0.80-0.89.....	1								
	1.00 and over.....	1								
	Undistributed <sup>2</sup> .....	17	21	60	16	23	51	15	107	12
1099	METALLIC ORES, NEC, TOTAL.....	66	237	1,063	187	343	852	1,847	3,018	699
	0.10-0.19.....	1	20	47	14	21	40	237	206	9
	0.20-0.29.....	3								
	0.30-0.39.....	2								
	0.40-0.49.....	1								
	0.50-0.59.....	4	89	477	76	138	428	1,398	2,401	7
	0.60-0.69.....	2								
	0.70-0.79.....	2								
	0.80-0.89.....	1	23	84	19	15	70	117	47	597
	1.00 and over.....	2								
	Undistributed <sup>2</sup> .....	10								
	Undistributed <sup>2</sup> .....	40	34	119	30	65	108	162	264	86

<sup>1</sup>Note that in computing these ratios contract or subcontract employment serving the establishment is excluded. The cost of contract or subcontract work expressed as a percent of payroll for 1958 was: for Metal Mining Stripping Services, 5 percent; for Metal Mining Services, NEC, 3 percent; for Mercury Ores, 2 percent; for Titanium Ores, 3 percent; for Uranium-Radium-Vanadium Ores, 160 percent; and for Metallic Ores, NEC, 5 percent.

<sup>2</sup>Represents establishments with zero or negative value added; establishment with no employees; and, for number of employees and payroll, includes figures for separately reported central offices and related facilities.

<sup>3</sup>Not shown since the cost of supplies, minerals received for preparation, fuels, purchased electricity, contract work, and purchased machinery installed exceeds the value of shipments and receipts plus capital expenditures.

Table 10.—Value Added in Mining Per Employee by Size of Establishment in the United States: 1958

Ind code	Industry and value added per employee class <sup>1</sup>	Number of—		Number of establishments with average employment of—						
		Establish- ments	Employees	0-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1081	METAL MINING STRIPPING SERVICES, TOTAL...	29	553	23	3	2	1	...	...	...
	Less than \$3,000.....	1		1				...	...	...
	\$3,000-\$3,999.....	1	25	1	...	...	...	...	...	...
	\$4,000-\$4,999.....	1		1	...	...	...	...	...	...
	\$6,000-\$6,999.....	4	56	3	1	...	...	...	...	...
	\$7,000-\$7,999.....	3	6	3	...	...	...	...	...	...
	\$8,000-\$8,999.....	2		1	...	...	...	...	...	...
	\$9,000-\$9,999.....	2	52	2	...	...	...	...	...	...
	\$10,000-\$12,499.....	5	116	3	1	1	...	...	...	...
	\$12,500-\$14,999.....	1		1	...	...	...	...	...	...
	\$17,500-\$19,999.....	2	295	2	...	...	...	...	...	...
	\$20,000 and over.....	2		...	...	1	1	...	...	...
	Undistributed <sup>2</sup> .....	5	3	5	...	...	...	...	...	...
1082	METAL MINING SERVICES, NEC, TOTAL.....	66	1,631	49	8	3	6	...	...	...
	Less than \$3,000.....	5	9	5	...	...	...	...	...	...
	\$3,000-\$3,999.....	3	240	2	...	...	1	...	...	...
	\$4,000-\$4,999.....	4		2	1	...	1	...	...	...
	\$5,000-\$5,999.....	1	219	1	...	...	...	...	...	...
	\$6,000-\$6,999.....	6	55	5	1	...	...	...	...	...
	\$7,000-\$7,999.....	8	39	8	...	...	...	...	...	...
	\$8,000-\$8,999.....	4	185	1	2	...	1	...	...	...
	\$9,000-\$9,999.....	4	115	2	1	1	...	...	...	...
	\$10,000-\$12,499.....	10	245	7	1	1	1	...	...	...
	\$12,500-\$14,999.....	12	448	7	2	1	2	...	...	...
	\$15,000-\$17,499.....	3		3	...	...	...	...	...	...
	\$17,500-\$19,999.....	2	11	2	...	...	...	...	...	...
	\$20,000 and over.....	1		1	...	...	...	...	...	...
	Undistributed <sup>2</sup> .....	3	65	3	...	...	...	...	...	...
1092	MERCURY ORES, TOTAL.....	79	652	70	5	3	1	...	...	...
	Less than \$3,000.....	13	58	12	1	...	...	...	...	...
	\$3,000-\$3,999.....	3	28	2	1	...	...	...	...	...
	\$5,000-\$5,999.....	2		1	1	...	...	...	...	...
	\$6,000-\$6,999.....	2	40	2	...	...	...	...	...	...
	\$7,000-\$7,999.....	2		1	...	1	...	...	...	...
	\$8,000-\$8,999.....	1	85	1	...	...	...	...	...	...
	\$9,000-\$9,999.....	3	210	1	1	...	1	...	...	...
	\$10,000-\$12,499.....	2		1	...	1	...	...	...	...
	\$12,500-\$14,999.....	2	84	2	...	...	...	...	...	...
	\$17,500-\$19,999.....	3	91	2	...	1	...	...	...	...
	\$20,000 and over.....	5	36	4	1	...	...	...	...	...
	Undistributed <sup>2</sup> .....	41	20	41	...	...	...	...	...	...
1093	TITANIUM ORES, TOTAL.....	11	962	4	2	1	3	1	...	...
	\$3,000-\$3,999.....	1		...	1	...	...	...	...	...
	\$4,000-\$4,999.....	1	277	...	...	1	...	...	...	...
	\$5,000-\$5,999.....	1		...	...	...	1	...	...	...
	\$15,000-\$17,499.....	3		1	...	...	2	...	...	...
	\$17,500-\$19,999.....	1	661	...	...	...	...	1	...	...
	\$20,000 and over.....	1		...	1	...	...	...	...	...
	Undistributed <sup>2</sup> .....	3	24	3	...	...	...	...	...	...
1094	URANIUM-RADIUM-VANADIUM ORES, TOTAL.....	602	7,939	541	23	19	16	2	1	...
	Less than \$3,000.....	80	234	80	...	...	...	...	...	...
	\$3,000-\$3,999.....	21	394	18	1	1	1	...	...	...
	\$4,000-\$4,999.....	19	132	18	1	...	...	...	...	...
	\$5,000-\$5,999.....	27	154	26	...	1	...	...	...	...
	\$6,000-\$6,999.....	18	301	15	2	...	1	...	...	...
	\$7,000-\$7,999.....	14	76	14	...	...	...	...	...	...
	\$8,000-\$8,999.....	18	597	15	...	...	2	1	...	...
	\$9,000-\$9,999.....	15	201	12	2	1	...	...	...	...
	\$10,000-\$12,499.....	28	182	26	2	...	...	...	...	...
	\$12,500-\$14,999.....	29	274	26	1	2	...	...	...	...
	\$15,000-\$17,499.....	16	486	10	3	2	1	...	...	...
	\$17,500-\$19,999.....	14	674	11	...	1	1	1	...	...
	\$20,000 and over.....	86	3,721	56	10	9	10	...	1	...
	Undistributed <sup>2</sup> .....	217	513	214	1	2	...	...	...	...
1099	METALLIC ORES, NEC, TOTAL.....	66	237	64	1	1	...	...	...	...
	Less than \$3,000.....	15	51	15	...	...	...	...	...	...
	\$3,000-\$3,999.....	3	40	2	1	...	...	...	...	...
	\$4,000-\$4,999.....	2		2	...	...	...	...	...	...
	\$5,000-\$5,999.....	4	22	4	...	...	...	...	...	...
	\$7,000-\$7,999.....	2		2	...	...	...	...	...	...
	\$8,000-\$8,999.....	1	19	1	...	...	...	...	...	...
	\$12,500-\$14,999.....	1		1	...	...	...	...	...	...
	\$15,000-\$17,499.....	1		1	...	...	...	...	...	...
	\$17,500-\$19,999.....	1	79	...	...	1	...	...	...	...
	\$20,000 and over.....	1		1	...	...	...	...	...	...
	Undistributed <sup>2</sup> .....	35	26	35	...	...	...	...	...	...

<sup>1</sup>See table 9, footnote 1. <sup>2</sup>Represents establishments with no employees or with negative value added in mining and, for number of employees, figures for separately reported central offices and related facilities.



Table 11.—Hourly Earnings of Production and Development Workers for Establishments with 10 or More Employees by Divisions: 1958

Ind. code	Industry by hourly earnings classes	Number of—		Number of establishments with 10 or more employees in—								
		Estab- lish- ments	Empley- ees	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun- tain	Pacific
1081	METAL MINING STRIPPING SERVICES, TOTAL.....	11	508	...	1	...	3	...	...	...	7	...
	\$1.50-\$1.99.....	1	381	...	...	...	...	...	...	...	1	...
	\$2.00-\$2.49.....	6		...	...	...	1	...	...	...	5	...
	\$2.50 and over.....	4		...	1	...	2	...	...	...	1	...
1082	METAL MINING SERVICES, NEC, TOTAL.....	23	1,509	1	1	2	2	1	2	...	13	1
	\$1.00-\$1.49.....	2	241	...	...	1	...	...	...	...	1	...
	\$1.50-\$1.99.....	2		...	1	...	...	...	...	...	1	...
	\$2.00-\$2.49.....	8		...	...	...	1	1	2	...	4	...
	\$2.50-\$2.99.....	7	448	...	...	...	1	...	...	...	5	1
	\$3.00 and over.....	4	365	1	...	1	...	...	...	...	2	...
1092	MERCURY ORES, TOTAL.....	14	575	...	...	...	...	...	...	...	6	8
	\$1.50-\$1.99.....	2	414	...	...	...	...	...	...	...	...	2
	\$2.00-\$2.49.....	5		...	...	...	...	...	...	...	3	2
	\$2.50-\$2.99.....	5		...	...	...	...	...	...	...	3	2
	\$3.00 and over.....	2	161	...	...	...	...	...	...	...	...	2
1093	TITANIUM ORES, TOTAL.....	9	(D)	...	1	1	...	7	...	...	...	...
	\$1.00-\$1.49.....	1	211	...	...	...	...	1	...	...	...	...
	\$1.50-\$1.99.....	2		...	...	...	...	2	...	...	...	...
	\$2.00-\$2.49.....	5		...	...	1	...	4	...	...	...	...
	\$2.50-\$2.99.....	1	(D)	...	1	...	...	...	...	...	...	...
1094	URANIUM-RADIUM-VANADIUM ORES, TOTAL.....	100	6,924	...	...	...	4	...	...	...	94	2
	\$1.00-\$1.49.....	4	181	...	...	...	...	...	...	...	4	...
	\$1.50-\$1.99.....	14	515	...	...	...	1	...	...	...	13	...
	\$2.00-\$2.49.....	43	4,497	...	...	...	...	...	...	...	42	1
	\$2.50-\$2.99.....	18	810	...	...	...	2	...	...	...	15	1
	\$3.00-\$3.49.....	11	627	...	...	...	1	...	...	...	10	...
	\$3.50-\$3.99.....	4	132	...	...	...	...	...	...	...	4	...
	\$4.00 and over.....	6	162	...	...	...	...	...	...	...	6	...
1099	METALLIC ORES, NEC, TOTAL.....	7	148	...	...	...	...	3	...	...	3	1
	\$1.50-\$1.99.....	1	(D)	...	...	...	...	1	...	...	...	...
	\$2.00-\$2.49.....	4	56	...	...	...	...	2	...	...	2	...
	\$2.50-\$2.99.....	1	(D)	...	...	...	...	...	...	...	...	1
	\$3.00-\$3.49.....	1	(D)	...	...	...	...	...	...	...	1	...

D Withheld to avoid disclosing figures for individual companies.

Table 12.—Distribution of Operating Companies by Employment Size and by Number of Establishments for the United States: 1958

Ind. code	Industry by establishment count	Number of—			Number of establishments with average employment of—							
		Operat- ing com- panies	Estab- lish- ments	Employ- ees	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999
1081	METAL MINING STRIPPING SERVICES, TOTAL.....	29	29	553	14	4	5	3	2	1	...	...
	Multiunit companies (1 establishment) <sup>1</sup> ....	3	3	136	1	...	...	...	2	...	...	...
	Single unit companies.....	26	26	417	13	4	5	3	...	1	...	...
1082	METAL MINING SERVICES, NEC, TOTAL.....	62	66	1,631	34	9	6	8	3	6	...	...
	Multiunit companies, total.....	6	10	860	1	...	1	2	2	4	...	...
	1 establishment <sup>1</sup> .....	5	5	407	1	...	1	1	...	2	...	...
	5 or 6 establishments.....	1	5	453	...	...	...	1	2	2	...	...
	Single unit companies.....	56	56	771	33	9	5	6	1	2	...	...
1092	MERCURY ORES, TOTAL.....	77	79	652	59	6	5	5	3	1	...	...
	Multiunit companies, total.....	7	9	333	1	3	2	1	1	1	...	...
	1 establishment <sup>1</sup> .....	5	5	333	{	1	1	1	...	1	...	...
	2 establishments.....	2	4			...	2	1	1	...	...	...
	Single unit companies.....	70	70	319	58	3	3	...	4	2	...	...
1093	TITANIUM ORES, TOTAL.....	9	11	962	2	...	2	2	1	3	1	...
	Multiunit companies, total.....	5	7	912	...	...	1	1	1	3	1	...
	1 establishment <sup>1</sup> .....	3	3	912	{	...	...	1	...	...	1	...
	2 establishments.....	2	4			...	...	...	1	3	...	...
	Single unit companies.....	4	4	50	2	...	1	1	...	...	...	...
1094	URANIUM-RADIUM-VANADIUM ORES, TOTAL.....	563	602	7,939	431	71	39	23	19	16	2	1
	Multiunit companies, total.....	45	84	5,531	18	11	10	14	15	13	2	1
	1 establishment <sup>1</sup> .....	27	27	2,220	7	2	2	6	6	3	...	1
	2 establishments.....	8	18	895	3	3	3	2	4	3	...	...
	3 or 4 establishments.....	7	21	849	7	3	4	1	3	3	...	...
	5 or 6 establishments.....	3	18	1,567	1	3	1	5	2	4	2	...
	Single unit companies.....	518	518	2,408	413	60	29	9	4	3	...	...
1099	METALLIC ORES, NEC, TOTAL.....	66	66	237	54	5	5	1	1	...	...	...
	Multiunit companies (1 establishment) <sup>1</sup> ....	6	6	105	2	1	2	...	1	...	...	...
	Single unit companies.....	60	60	132	52	4	3	1	...	...	...	...

<sup>1</sup>Represents companies having at least one establishment classified in other industries.





# Coal Mining

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Major Group 11, Anthracite Mining, and Major Group 12, Bituminous Coal and Lignite Mining. The separate industries included in these major groups and the reports in which they appear are:

<u>Report</u>	<u>Industries Covered</u>
MIC58(1)-11B--Anthracite mining	<ul style="list-style-type: none"> <li>1111--Anthracite</li> <li>1112--Anthracite stripping services</li> <li>1113--Anthracite mining services, except strip mining</li> </ul>
MIC58(1)-12A--Bituminous Coal and Lignite Mining	<ul style="list-style-type: none"> <li>1211--Bituminous coal</li> <li>1212--Lignite</li> <li>1213--Bituminous coal and lignite stripping and auger mining services</li> <li>1214--Bituminous coal and lignite mining services, except stripping, nec</li> </ul>

Major Group 11, Anthracite Mining, represents establishments primarily engaged in producing anthracite (hard coal). Mining operations, dredging operations, and preparation plants also known as cleaning plants, breakers, and washeries, whether or not such plants are operated in conjunction with the mine served, are included. Major Group 12, Bituminous Coal and Lignite Mining, represents establishments primarily engaged in producing bituminous coal or lignite. Included are mining operations and preparation plants, also known as cleaning plants, washeries, crushing plants, and screening and sizing plants, whether or not such plants are operated in conjunction with the mine served. The production of fuel briquets and packaged fuel is classified in Major Group 29, and the production of manufactured gas from coal in Industry 4925.

Establishments were classified by industry on the basis of the kind of coal produced--anthracite, bituminous coal, and lignite; or in the case of service establishments, on the basis of the industry principally served and the principal kind of work done. The statistics for anthracite relate only to its production in eastern Pennsylvania, including, because of its proximity to the anthracite counties, the semianthracite produced in the Bernice Basin in Sullivan County. The statistics for bituminous coal and lignite cover all other coal mining activity in the United States. The bituminous coal statistics include subbitu-

minous, semianthracite, and all coal sometimes classified as anthracite which is mined outside of Pennsylvania.

The combined value of shipments and receipts in 1958 of all industries in Major Groups 11 and 12 was \$2,748 million. Establishments in the Anthracite Industry accounted for \$290 million, the Anthracite Stripping Services Industry for \$34 million, and the Anthracite Mining Services, NEC Industry for \$0.3 million. The Bituminous Coal Industry accounted for \$2,391 million, the Lignite Industry for \$11 million, the Bituminous Coal and Lignite Stripping Services Industry for \$19 million, and the Bituminous Coal and Lignite Mining Services, NEC Industry for \$2.5 million.

Net coal shipments in the United States in 1958 were 443 million tons, including 22 million tons of anthracite, 416 million tons of bituminous coal, and 4 million tons of lignite. These figures exclude coal produced and used in the same establishment for power or heat which in 1958 amounted to 0.7 million tons.

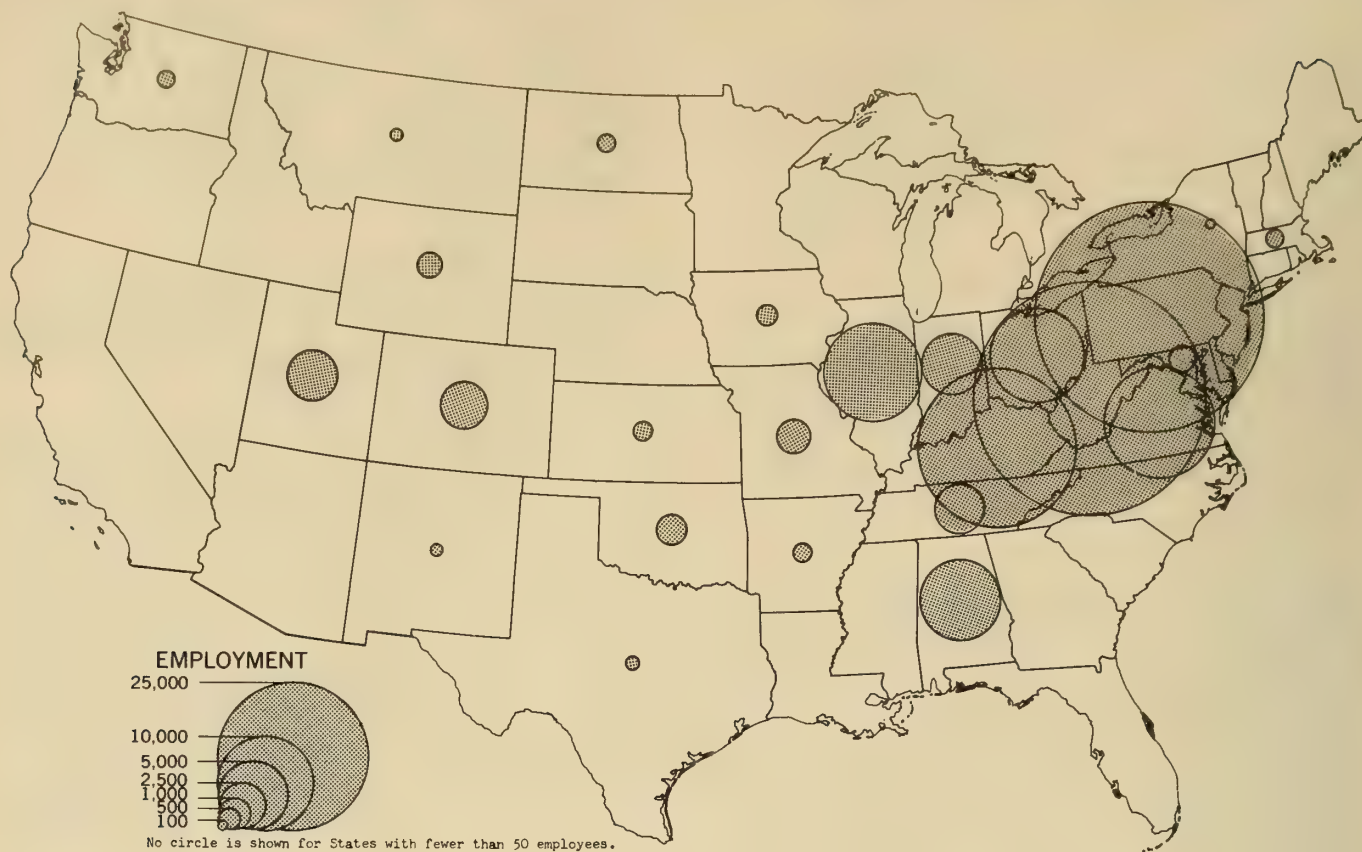
The above figures for value of shipments and receipts for the Anthracite, Bituminous Coal, and Lignite Industries represent gross shipments. They contain duplication due to the inclusion of the value of coal transferred from one establishment to other establishments in the same industry for preparation and to the inclusion of some purchases for resale. In order to eliminate this duplication, net shipments and receipts figures have been derived for each industry by subtracting from the gross shipments the value of coal shipments to preparation plants and the resale value of coal purchased for resale without preparation. Similarly, the service industries gross receipts were adjusted to a net basis by excluding purchases for resale. Net shipments and receipts for the coal industries were as follows: For all Coal Mining, \$2,325 million; for Anthracite, \$199 million; for Bituminous coal, \$2,059 million; and for Lignite, \$11 million.

This report presents in table 1 comparative general statistics for all coal mining industries combined for the census years 1840-1958. Table 2A presents general statistics by industry for the United States and for geographic divisions and States. Table 2B presents some cost, capital, and product details for the coal mining industries for divisions and selected States. Table 2C shows number of establishments, employment, and value added in mining by major types of operation for the same geographic areas. In table 3, detailed statistics are shown by industry for the United States. Table 4 shows selected statistics for establishments classified by employment size for all coal mining and separately for Major Groups 11 and 12. It also includes the number of coal mining establishments by employment size and State.



# COAL MINING

## Distribution of Employment by State: 1958



## Employment and Production: 1958

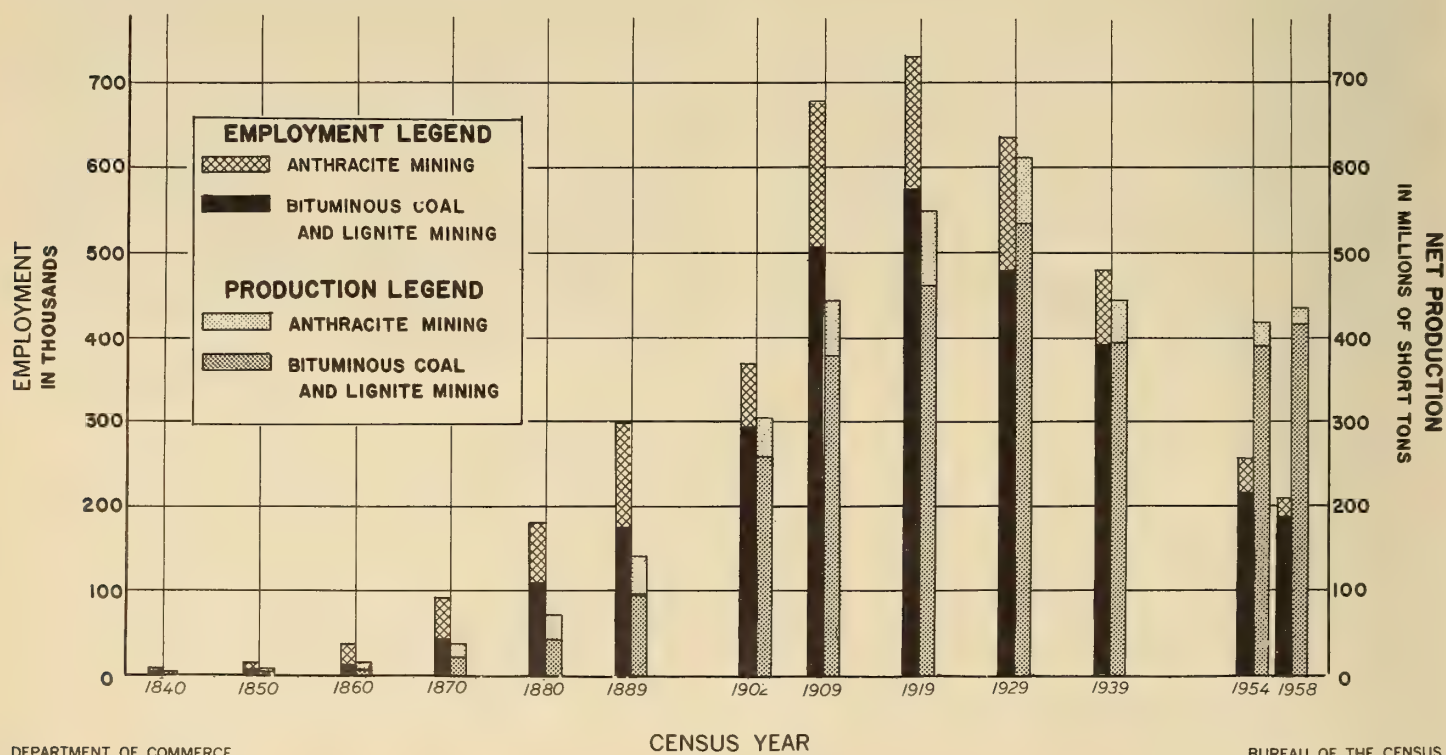


Table 1.—General Statistics for the Coal Mining Industries in the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries, see Table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. 1)

Industry and year	Establishments, number		All employees		Production and development workers			Selected expenses (\$1,000)					Value of net shipments and receipts <sup>1</sup>	Net production of coal <sup>2</sup>	Capital expenditures	Energy used (million kWh equivalent)
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours	Wages (\$1,000)	Value added in mining (\$1,000)	Supplies, purchased for sale, and fuels and electricity	Minerals received for preparation	Contract work	Purchased machinery installed				
<b>1958:</b>																
Coal mining industries, total.....	7,455	1,530	210,519	1,006,180	183,580	298,566	839,789	1,774,453	495,098	410,599	111,137	161,988	2,325,478	439,173	204,786	18,784
Coal industries.....	7,223	1,467	205,898	984,925	179,414	291,561	821,294	1,737,048	478,199	410,599	109,079	155,332	2,269,043	439,173	198,203	17,761
Coal stripping services.....	214	61	4,354	20,090	3,917	6,501	17,395	35,436	16,042	xxx	2,001	6,431	53,625	(3)	6,285	993
Coal mining services, except stripping.....	26	2	267	1,165	249	504	1,100	1,969	857	xxx	57	225	2,810	(3)	298	30
<b>1954:</b>																
Coal mining industries, total.....	7,397	1,708	256,295	1,010,234	232,681	374,035	878,795	1,615,219	429,575	323,801	106,414	130,910	2,476,614	420,364	129,305	22,549
Coal industries.....	7,126	1,629	250,156	986,307	227,147	365,372	858,030	1,572,957	414,301	323,801	104,593	124,755	2,037,236	420,364	124,284	21,587
Coal stripping services.....	268	79	5,840	22,660	5,270	8,240	19,732	40,269	14,719	xxx	1,818	6,038	58,008	(3)	4,836	947
Coal mining services, except stripping.....	28	28	299	1,247	264	423	1,033	1,993	555	xxx	3	117	2,483	(3)	185	15
<b>1939:</b>																
Coal mining industries, total.....	5,539	(NA)	479,370	596,726	454,056	670,164	539,986	764,697	154,776	(NA)	13,080	(NA)	932,553	446,572	(NA)	42,303
Coal industries.....	5,437	(NA)	476,263	592,210	451,174	665,422	536,326	756,615	150,909	(NA)	12,939	(NA)	920,463	446,572	(NA)	42,042
Coal stripping services.....	58	(NA)	2,646	3,915	2,461	4,038	3,166	7,126	3,669	xxx	141	(NA)	10,936	(3)	1,000	261
Coal mining services, except stripping.....	45	(NA)	461	601	421	704	494	956	198	xxx	(NA)	(NA)	1,154	(3)	50	(NA)
<b>1935:</b> <sup>7</sup>																
Coal mining industries, total.....	(NA)	(NA)	551,650	569,969	527,864	(NA)	522,779	729,559	(NA)	(NA)	(NA)	(NA)	(NA)	424,413	(NA)	(NA)
Coal industries.....	(NA)	(NA)	548,395	565,789	524,811	(NA)	519,041	(NA)	139,267	(NA)	(NA)	(NA)	868,826	424,413	(NA)	(NA)
Coal stripping services.....	(NA)	(NA)	3,255	4,180	3,053	(NA)	3,738	(NA)	2,848	xxx	(NA)	(NA)	(NA)	(3)	(NA)	(NA)
<b>Coal industries only:</b>																
1929.....	(NA)	(NA)	633,692	884,815	601,636	(NA)	804,886	1,140,732	202,124	(NA)	8,692	40,527	1,351,548	611,989	(NA)	80,460
1919.....	(NA)	(NA)	734,618	975,225	693,641	(NA)	893,481	1,251,882	253,320	433	4,427	(NA)	1,509,629	548,597	(NA)	92,979
1909.....	(NA)	(NA)	680,338	388,025	638,156	(NA)	362,991	462,338	84,381	xxx	4,109	(NA)	550,828	457,940	(NA)	(NA)
1902 <sup>6</sup> .....	(NA)	(NA)	367,756	237,617	11,350,329	(NA)	220,198	327,842	37,540	(NA)	1,650	(NA)	367,032	301,591	(NA)	(NA)
1889.....	(NA)	(NA)	299,559	109,130	291,479	(NA)	103,426	138,244	18,828	(NA)	3,155	(NA)	121,600	121,411	(NA)	(NA)
1880.....	(NA)	(NA)	179,989	55,912	(NA)	(NA)	(NA)	84,159	11,599	(NA)	(NA)	(NA)	13,957,758	1371,482	(NA)	(NA)
1870.....	(NA)	(NA)	94,754	44,317	(NA)	(NA)	(NA)	67,856	5,669	(NA)	(NA)	(NA)	73,525	36,823	(NA)	(NA)
1860.....	(NA)	(NA)	36,486	9,650	(NA)	(NA)	(NA)	17,491	2,753	(NA)	(NA)	(NA)	20,244	14,334	(NA)	(NA)
1850.....	(NA)	(NA)	15,118	4,069	(NA)	(NA)	(NA)	6,928	246	(NA)	(NA)	(NA)	7,174	6,446	(NA)	(NA)
1840.....	(NA)	(NA)	6,811	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2,071	(NA)	(NA)

NA Not available.

<sup>1</sup>Represents gross shipments and receipts less coal transferred to other establishments for preparation and less purchases for resale. For 1939 and earlier years, represents value of products and receipts.

<sup>2</sup>Represents the clean-coal equivalent of all coal mined, based on the location of the mine, including coal produced and used at the same establishment for power or heat.

<sup>3</sup>Coal mined by the Coal Services Industries is included in the production shown for the Anthracite, Bituminous Coal, and Lignite Industries.

<sup>4</sup>Represents number of mines, culm banks, and dredges.

<sup>5</sup>Represents the Anthracite Stripping Services Industry only.

<sup>6</sup>Includes data for the Bituminous Coal and Lignite Stripping Services Industries.

<sup>7</sup>Represents producing operations only.

<sup>8</sup>For the Bituminous Coal and Lignite Industries, represents number of mines.

<sup>9</sup>Excludes purchased electricity. For 1929, the quantity of purchased electricity amounted to only 3 percent of the total kWh equivalent of energy used.

<sup>10</sup>For 1902, data were also obtained from the operators of coal mines on the average number of employees at contract service operations performed for them. The total number of such employees was reported as 6,906.

<sup>11</sup>Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

<sup>12</sup>Includes data for 9,920 "local mines and farmers' banks," producing about 2 percent of all bituminous coal and lignite, for which no data are available on labor and expenditures. See also footnote <sup>4</sup>.

<sup>13</sup>Includes data for 5,148 bituminous coal and lignite mines, producing 917 thousand tons of coal valued at \$1,093 thousand, representing "irregular" operations for which no other data are available.



## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 2A.—General Statistics for the Coal Mining Industries, by Industry,  
for Divisions, States, and Alaska: 1958 and 1954

(For explanation of column captions see Introduction)

Ind. code	Industry, division, and State	1958										1954		
		Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and purchased machinery	Value of shipments and receipts	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)						
	United States, total..	8,178	1,530	210,519	1,006,180	183,580	298,566	839,789	1,774,453	1,178,822	2,748,489	204,786	256,295	1,615,219
	Coal industries.....	7,936	1,467	205,898	984,925	179,414	291,561	821,294	1,737,048	1,153,209	2,692,054	198,203	250,156	1,572,957
	Coal stripping services.....	216	61	4,354	20,090	3,917	6,501	17,395	35,436	24,474	53,625	6,285	5,840	40,269
	Coal mining services, except stripping...	26	2	267	1,165	249	504	1,100	1,969	1,139	2,810	298	299	1,993
11	Anthracite mining, total..	1,248	159	22,813	93,396	20,047	30,867	79,425	164,489	177,230	325,128	16,591	37,462	196,835
1111	Anthracite.....	1,163	117	19,712	79,473	17,266	26,409	67,449	142,198	160,948	290,342	12,804	32,769	167,090
1112	Anthracite stripping services.....	79	42	3,054	13,717	2,737	4,395	11,780	22,027	16,121	34,463	3,685	4,556	29,079
1113	Anthracite mining services, nec.....	6	...	47	206	44	63	196	264	161	323	102	137	666
12	Bituminous coal and lignite mining, total....	6,930	1,371	187,706	912,784	163,533	267,699	760,364	1,609,964	1,001,592	2,423,361	188,195	218,833	1,418,384
1211	Bituminous coal.....	6,715	1,342	185,676	902,759	161,711	264,308	751,584	1,585,541	989,103	2,390,677	183,967	216,813	1,396,774
1212	Lignite.....	58	8	510	2,693	437	844	2,261	9,309	3,158	11,035	1,432	574	9,093
1213	Coal stripping services, nec.....	137	19	1,300	6,373	1,180	2,106	5,615	13,409	8,353	19,162	2,600	1,284	11,190
1214	Coal mining services,nec	20	2	220	959	205	441	904	1,705	978	2,487	196	162	1,327
	DIVISION OR STATE													
	Middle Atlantic (Pennsylvania):													
	Coal mining, total....	2,621	392	60,251	279,517	52,311	83,106	229,845	456,267	376,501	782,760	50,008	88,681	497,287
	Coal industries.....	2,475	343	56,585	262,959	49,013	77,562	215,558	428,582	356,467	740,364	44,685	83,266	462,060
	Coal stripping services.....	135	47	3,501	15,745	3,146	5,222	13,585	26,512	19,358	40,787	5,083	5,415	35,227
	Coal mining services, except stripping...	11	2	165	813	152	322	702	1,173	676	1,609	240		
11	Anthracite mining, total	1,248	159	22,813	93,396	20,047	30,867	79,425	164,489	177,230	325,128	16,591	37,462	196,835
1111	Anthracite.....	1,163	117	19,712	79,473	17,266	26,409	67,449	142,198	160,948	290,342	12,804	32,769	167,090
1112	Anthracite stripping services.....	79	42	3,054	13,717	2,737	4,395	11,780	22,027	16,121	34,463	3,685	4,556	29,079
1113	Anthracite mining services, nec.....	6	...	47	206	44	63	196	264	161	323	102	137	666
12	Bituminous coal mining, total.....	1,373	233	37,438	186,121	32,264	52,239	150,420	291,778	199,271	457,632	33,417	51,219	300,452
1211	Bituminous coal.....	1,312	226	36,873	183,486	31,747	51,153	148,109	286,384	195,519	450,022	31,881	50,497	294,970
1213	Coal stripping services, nec.....	56	5	447	2,028	409	827	1,805	4,485	3,237	6,324	1,398	722	5,482
1214	Coal mining services, nec.....	5	2	118	607	108	259	506	909	515	1,286	138		
12	East North Central, total:	626	202	25,301	143,411	21,651	38,322	116,869	284,145	159,818	414,498	29,465	30,902	259,486
1211	Bituminous coal mining..	612	201	25,201	142,949	21,563	38,142	116,442	283,283	159,185	413,049	29,419	30,832	258,913
1213	Coal services, nec....	14	1	100	462	88	180	427	862	633	1,449	46	70	573
1214														
12	Ohio:													
1211	Bituminous coal mining, total.....	394	97	10,036	53,872	8,368	14,538	41,836	100,958	77,769	166,657	12,070	11,199	90,727
1213	Bituminous coal.....	383	96	9,938	53,419	8,282	14,361	41,417	100,122	77,169	165,263	12,028	11,132	90,164
1214	Coal services, nec..	11	1	98	453	86	177	419	836	600	1,394	42	67	563
12	Indiana:													
1211	Bituminous coal mining	91	34	4,105	22,858	3,412	5,726	18,218	44,289	21,570	61,060	4,799	4,747	39,598
1211	Bituminous coal.....	88	34	4,104	22,853	3,411	5,724	18,213	44,268	21,542	61,014	4,796	4,744	39,588
12	Illinois:													
1211	Bituminous coal mining <sup>3</sup> .....	141	71	11,140	66,595	9,871	18,058	56,815	138,898	60,479	186,781	12,596	14,956	129,161
1211	Bituminous coal.....	141	71	11,139	66,591	9,870	18,057	56,812	138,893	60,474	186,772	12,595	14,956	129,161
12	West North Central:													
1211	Bituminous coal and lignite mining.....	176	21	2,201	(D)	1,466	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1211	Bituminous coal.....	130	15	1,877	9,700	1,182	2,174	5,607	16,022	8,274	20,072	4,224	1,949	15,471
12	Iowa:													
1211	Bituminous coal mining	62	2	425	1,453	399	771	1,338	3,592	1,841	4,867	566	(NA)	(NA)
1211	Bituminous coal.....	59	2	421	1,436	395	765	1,321	3,552	1,787	4,779	560	602	3,556
1211	Missouri (bituminous coal).....	51	10	1,204	6,757	583	1,097	3,198	9,832	5,540	11,939	3,433	850	7,644
1211	Kansas (bituminous coal)	20	3	252	1,507	204	312	1,088	2,638	947	3,354	231	497	4,271

See footnotes at end of table.

Table 2A.—General Statistics for the Coal Mining Industries, by Industry,  
for Divisions, States, and Alaska: 1958 and 1954—Continued

Ind. code	Industry, division, and State	1958											1954	
		Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and purchased machinery	Value of shipments and receipts	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)						
	DIVISION AND STATE—Con.													
	South Atlantic:													
12	Bituminous coal mining..	2,708	544	76,542	365,309	67,250	110,149	310,536	642,475	387,596	944,624	85,447	79,541	497,313
1211	Bituminous coal.....	2,655	536	75,925	362,347	66,687	109,209	307,820	636,742	384,172	936,350	84,564	79,156	494,259
1213	Coal stripping services, nec.....	47	8	567	2,859	514	862	2,549	25,397	23,240	27,782	2855	385	3,054
1214	Coal mining services, nec.....	6	...	50	103	49	78	167	236	184	242	228		
	Maryland:													
12	Bituminous coal mining	80	5	560	1,982	524	895	1,866	3,170	2,854	5,552	472	371	1,631
1211	Bituminous coal.....	77	5	540	1,846	504	857	1,730	2,985	2,685	5,210	460	371	1,631
	Virginia:													
12	Bituminous coal mining	874	129	13,858	53,797	12,057	18,849	45,595	101,666	81,397	153,901	29,162	11,720	61,508
1211	Bituminous coal.....	869	127	13,737	53,097	11,950	18,670	45,004	100,135	80,411	151,825	28,721	11,720	61,508
1213	Coal stripping services, nec.....	4	2	121	700	107	179	591	1,531	986	2,076	441	...	...
	West Virginia:													
12	Bituminous coal mining	1,748	410	62,110	309,495	54,656	90,386	263,041	537,591	303,338	785,118	55,811	67,441	434,141
1211	Bituminous coal.....	1,704	404	61,634	307,369	54,220	89,663	261,052	533,574	301,069	779,262	55,381	67,056	431,087
1213	Coal stripping services, nec.....	40	6	426	2,023	387	645	1,822	3,681	2,085	5,364	402	385	3,054
1214	Coal mining services, nec.....	26	...	50	103	49	78	167	336	184	492	28		
	East South Central, total:													
12	Bituminous coal mining..	1,746	301	38,684	167,704	34,529	53,873	144,267	304,972	200,480	480,152	25,300	44,713	269,763
1211	Bituminous coal.....	1,730	298	38,511	166,760	34,367	53,624	143,461	302,832	199,417	477,196	25,053	44,608	268,259
1213	Coal services, nec....	16	3	173	944	162	249	806	2,140	1,063	2,956	247	105	1,504
1214														
	Kentucky:													
12	Bituminous coal mining	1,314	234	28,512	122,365	25,437	39,999	106,618	228,807	155,086	364,831	19,062	31,854	194,233
1211	Bituminous coal.....	1,306	232	28,397	121,721	25,329	39,842	106,066	227,458	154,316	362,887	18,887	31,787	193,094
1213	Coal services, nec..	8	2	115	644	108	157	552	1,349	770	1,944	175	67	1,139
1214														
	Tennessee:													
12	Bituminous coal mining	281	27	2,688	9,733	2,443	3,544	8,679	16,820	14,834	29,448	2,206	4,142	20,892
1211	Bituminous coal.....	277	26	2,661	9,628	2,416	3,509	8,574	16,575	14,724	29,123	2,176	4,133	20,837
	Alabama:													
12	Bituminous coal mining	151	40	7,484	35,606	6,649	10,330	28,970	59,345	30,560	85,873	4,032	8,717	54,638
1211	Bituminous coal.....	147	40	7,453	35,411	6,622	10,273	28,821	58,799	30,377	85,186	3,990	8,688	54,328
	West South Central:													
12	Bituminous coal and lignite mining.....	67	16	1,241	(D)	1,123	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1211	Bituminous coal.....	60	14	1,059	5,524	974	1,797	5,002	10,618	4,622	14,413	827	1,622	11,637
1211	Arkansas (bituminous coal only).....	29	4	252	1,219	228	388	1,081	2,081	1,205	3,086	200	457	2,783
1211	Oklahoma (bituminous coal only).....	31	10	807	4,305	746	1,409	3,921	8,537	3,417	11,327	627	1,165	8,854
	Mountain:													
12	Bituminous coal and lignite mining.....	221	48	5,735	28,744	5,005	7,915	24,190	48,790	37,441	78,062	8,169	27,665	(NA)
1211	Bituminous coal.....	203	47	5,666	28,429	4,946	7,818	23,941	48,051	36,899	77,040	7,910	7,449	49,936
	Montana:													
12	Bituminous coal and lignite mining.....	33	2	177	804	157	258	705	1,106	624	1,502	228	415	3,822
1211	Bituminous coal.....	18	2	146	687	129	208	600	854	315	1,148	21	338	2,906
	Wyoming:													
12	Bituminous coal mining	23	7	538	2,157	425	566	1,624	4,690	1,947	6,217	420	(NA)	(NA)
1211	Bituminous coal.....	20	6	506	1,991	399	531	1,506	4,244	1,749	5,619	374	1,222	8,857
1211	Colorado (bituminous coal).....	105	21	2,016	9,628	1,800	2,807	8,359	16,348	4,698	19,698	1,348	2,618	13,480
1211	New Mexico (bituminous coal).....	22	1	156	588	133	225	515	1,184	874	783	1,275	159	614
	Utah:													
12	Bituminous coal mining.....	35	17	2,830	15,539	2,472	4,037	12,959	25,417	29,289	49,808	4,898	3,091	24,020
1211	Bituminous coal.....	35	17	2,824	15,507	2,467	4,025	12,933	25,376	29,254	49,738	4,892	3,091	24,020
1211	Pacific (Washington- bituminous coal).....	13	5	276	1,360	245	391	1,202	1,609	1,015	2,535	89	(NA)	(NA)
1211	Alaska (bituminous coal).. 	10	4	257	2,282	197	471	1,736	5,780	2,062	7,547	295	373	5,777

D Withheld to avoid disclosing data for individual companies.

\*Revised.

NA Not available.

<sup>1</sup>Includes data for central offices and related facilities in Massachusetts.<sup>2</sup>Includes data for central offices and related facilities in New York.<sup>3</sup>Includes data for central offices and related facilities in Wisconsin.<sup>4</sup>For 1958, except for number of establishments, includes figures for operations in this State of certain service establishments primarily engaged in performing mining services in other States.



Table 2B.—Selected Expenditures and Net Shipments of Primary Products of the Coal Mining Industries, by Industry for Selected Divisions and States: 1958

(For explanation of column captions see Introduction)

Ind. code	Industry, division, and State	Selected expenses (\$1,000)					Capital expenditures (\$1,000)			Net shipments of primary products or receipts for primary services <sup>1</sup>			
		Total	Supplies, purchases for re-sale, and purchased fuels and electricity	Coal received for preparation	Contract work	Purchased machinery installed	Total	Development and exploration of mineral property	Plant and other construction, machinery, and equipment <sup>2</sup>	By establishments classified in the industry		By establishments classified in other mineral industries	
										Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
	UNITED STATES:												
	All coal mining industries.	1,178,822	495,098	410,599	111,137	161,988	204,786	12,876	191,910	xxx	xxx	xxx	xxx
11	Anthracite mining.....	177,230	41,317	85,375	40,505	10,033	16,591	3,818	12,773	xxx	xxx	xxx	xxx
1111	Anthracite.....	160,948	29,937	85,375	39,319	6,317	12,804	3,818	8,986	22,341	196,425	...	...
1112	Anthracite stripping services.....	16,121	11,320	xxx	1,186	3,615	3,685	...	3,685	xxx	333,305	xxx	( <sup>3</sup> )
12	Bituminous coal and lignite mining.....	1,001,592	453,781	325,224	70,632	151,955	188,195	9,058	179,137	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	989,103	446,659	325,224	69,727	147,493	183,967	8,984	174,983	416,183	205,607	130	435
1212	Lignite.....	3,158	1,603	...	33	1,522	1,432	74	1,358	4,230	11,021	...	...
1213	Coal stripping services, nec.....	8,353	4,722	xxx	815	2,816	2,600	...	2,600	xxx	19,112	xxx	11
	Middle Atlantic (Pennsylvania):												
11	Anthracite mining.....	177,230	41,317	85,375	40,505	10,033	16,591	3,818	12,773	xxx	xxx	xxx	xxx
1111	Anthracite.....	160,948	29,937	85,375	39,319	6,317	12,804	3,818	8,986	22,341	196,425	...	...
1112	Anthracite stripping services	16,121	11,320	xxx	1,186	3,615	3,685	...	3,685	xxx	333,305	xxx	( <sup>3</sup> )
12	Bituminous coal mining.....	199,271	79,827	67,289	20,000	32,155	33,417	1,885	31,532	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	195,519	77,732	67,289	19,703	30,795	31,881	1,885	29,996	69,537	380,078	80	296
1213	Coal stripping services, nec.	3,237	1,738	xxx	258	1,241	1,398	...	1,398	xxx	36,176	xxx	( <sup>3</sup> )
	East North Central, total:												
12	Bituminous coal mining.....	159,818	85,042	40,087	6,544	28,145	29,465	1,629	27,836	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	159,185	84,608	40,087	6,413	28,077	29,419	1,629	27,790	93,288	373,169	50	139
	Ohio:												
12	Bituminous coal mining.....	77,769	36,110	27,706	4,357	9,596	12,070	966	11,104	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	77,169	35,709	27,706	4,226	9,528	12,028	966	11,062	33,932	138,218	38	91
	Indiana:												
12	Bituminous coal mining.....	21,570	14,587	( <sup>4</sup> )	775	6,208	4,799	97	4,702	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	21,542	14,559	( <sup>4</sup> )	775	6,208	4,796	97	4,699	15,047	58,071	12	45
	Illinois:												
12	Bituminous coal mining.....	60,479	46,726	( <sup>4</sup> )	1,412	12,341	12,596	566	12,030	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	60,474	46,721	( <sup>4</sup> )	1,412	12,341	12,595	566	12,029	44,309	176,880	( <sup>3</sup> )	3
1211	West North Central (bituminous coal only).....	8,274	4,617	( <sup>4</sup> )	160	3,497	4,224	16	4,208	4,572	18,839	...	...
1211	Missouri (bituminous coal)....	5,540	2,702	( <sup>4</sup> )	31	2,807	3,433	8	3,425	62,619	(D)	...	...
	South Atlantic:												
12	Bituminous coal mining.....	387,596	175,058	130,093	26,375	56,070	85,447	3,703	81,744	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	384,172	173,001	130,093	26,013	55,065	84,564	3,703	80,861	151,349	806,869	...	...
1213	Coal stripping services, nec.	33,424	21,886	...	354	1,000	855	...	2855	xxx	37,782	xxx	( <sup>3</sup> )
	Maryland:												
12	Bituminous coal mining.....	2,854	1,416	522	200	716	472	11	461	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	2,685	1,345	522	111	707	460	11	449	889	3,952	...	...
	Virginia:												
12	Bituminous coal mining.....	81,397	28,507	29,024	10,769	13,097	29,162	567	28,595	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	80,411	28,237	29,024	10,713	12,437	28,721	567	28,154	26,255	128,386	...	...
	West Virginia:												
12	Bituminous coal mining.....	303,338	145,128	100,547	15,406	42,257	55,811	3,125	52,686	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	301,069	143,412	100,547	15,189	41,921	55,381	3,125	52,256	124,193	674,478	...	...
1213	Coal stripping services, nec.....	2,085	1,545	...	209	331	402	...	402	xxx	5,354	xxx	...
	East South Central, total:												
12	Bituminous coal mining.....	200,480	91,324	72,664	11,643	24,849	25,300	1,225	24,075	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	199,417	90,763	72,664	11,579	24,411	25,053	1,225	23,828	84,736	396,265	...	...
	Kentucky:												
12	Bituminous coal mining.....	155,086	65,492	62,803	8,029	18,762	19,062	1,047	18,015	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	154,316	65,174	62,803	7,980	18,359	18,887	1,047	17,840	66,671	292,696	...	...
	Tennessee:												
12	Bituminous coal mining.....	14,834	8,804	3,111	1,141	1,778	2,206	137	2,069	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	14,724	8,694	3,111	1,141	1,778	2,176	137	2,039	6,304	25,384	...	...
	Alabama:												
12	Bituminous coal mining.....	30,560	17,028	6,750	2,473	4,309	4,032	41	3,991	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	30,377	16,895	6,750	2,458	4,274	3,990	41	3,949	11,761	78,185	...	...

See footnotes at end of table.

Table 2B.—Selected Expenditures and Net Shipments of Primary Products of the Coal Mining Industries, by Industry for Selected Divisions and States: 1958—Continued

Ind. code	Industry, division, and State	Selected expenses (\$1,000)					Capital expenditures (\$1,000)			Net shipments of primary products or receipts for primary services <sup>1</sup>			
		Total	Supplies, purchases for re-sale, and purchased fuels and electricity	Coal received for preparation	Contract work	Purchased machinery installed	Total	Development and exploration of mineral property	Plant and other construction, machinery, and equipment <sup>2</sup>	By establishments classified in the industry		By establishments classified in other mineral industries	
										Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
1211	West South Central: Bituminous coal only.....	4,622	3,382	...	784	456	827	107	720	2,047	14,354	...	...
1211	Oklahoma (bituminous coal only)	3,417	2,293	...	754	370	627	53	574	1,657	11,286	...	...
12	Mountain: Bituminous coal and lignite mining.....	37,441	426,968	( <sup>4</sup> )	5,088	5,385	8,169	444	7,725	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	36,899	426,694	( <sup>4</sup> )	5,074	5,131	7,910	394	7,516	10,394	62,996	...	...
12	Wyoming: Bituminous coal mining.....	1,947	41,069	( <sup>4</sup> )	591	287	420	60	360	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	1,749	4927	( <sup>4</sup> )	581	241	374	60	314	1,634	5,613	...	...
1211	Colorado (bituminous coal).....	4,698	43,578	( <sup>4</sup> )	236	884	1,348	193	1,155	3,121	19,129	...	...
12	Utah: Bituminous coal mining.....	29,289	421,824	( <sup>4</sup> )	4,052	3,413	4,898	132	4,766	xxx	xxx	xxx	xxx
1211	Bituminous coal.....	29,254	421,795	( <sup>4</sup> )	4,052	3,407	4,892	132	4,760	5,293	36,293	...	...
1211	Alaska.....	2,062	704	500	619	239	295	170	125	762	7,098	...	...

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>Represents gross shipments of coal indicated by the industry name less coal transferred to other establishments for preparation.

<sup>2</sup>Represents expenditures during the year for both new and used plant and equipment.

<sup>3</sup>Figures for primary services performed in other industries are included with those for primary services performed in the specified industry.

<sup>4</sup>Figures for coal received for preparation are included with those for supplies, purchases for resale, and purchased fuel and electricity.

<sup>5</sup>Less than 500 tons.

<sup>6</sup>Represents net production.



Table 2C.—Number of Establishments, Employment, and Value Added for the Coal Mining Industries  
Except Service Industries, by Type of Operation for Industries and  
Selected Divisions, States, and Alaska: 1958

(For explanation of line and column captions see Introduction)

Ind. code	Industry, division, and State	All types of estab- lishments, total	Producing establishments										Non- pro- ducing estab- lish- ments
			Total	Mining only				Mines with preparation plants				Seps- rately operated prep- aration plants	
				Total	Under- ground mines	Open- pit mines	Combi- nation methods and other methods	Total	Under- ground mines	Open- pit mines	Combi- nation methods and other methods		
	United States:												
	Number of establishments...	7,936	7,881	5,863	4,767	838	258	1,711	1,000	477	234	307	55
	Number of employees.....	205,898	205,666	57,906	47,596	6,671	3,639	142,133	106,759	15,857	19,517	5,627	232
	Value added in mining.....\$1,000..	1,737,048	1,736,638	413,165	281,162	90,484	41,519	1,272,180	900,546	217,110	154,524	51,293	410
1111	Anthracite:												
	Number of establishments.....	1,163	1,154	966	829	77	60	91	17	11	63	97	9
	Number of employees.....	19,712	19,703	7,301	5,505	954	842	10,019	573	752	8,694	2,383	9
	Value added in mining..\$1,000..	142,198	142,348	60,696	33,962	18,320	8,414	63,758	3,196	4,786	55,776	17,894	( <sup>1</sup> )
1211	Bituminous coal:												
	Number of establishments.....	6,715	6,669	4,862	3,927	737	198	1,597	983	443	171	210	46
	Number of employees.....	185,676	185,453	50,528	42,074	5,657	2,797	131,681	106,186	14,672	10,823	3,244	223
	Value added in mining..\$1,000..	1,585,541	1,584,981	351,875	247,123	71,647	33,105	1,199,707	897,350	203,609	98,748	33,399	560
1212	Lignite:												
	Number of establishments.....	58	58	35	11	24	...	23	...	23	...	...	...
	Number of employees.....	510	510	77	17	60	...	433	...	433	...	...	...
	Value added in mining..\$1,000..	9,309	9,309	594	77	517	...	8,715	...	8,715	...	...	...
	DIVISION OR STATE												
	Middle Atlantic (Pennsylvania):												
	Number of establishments.....	2,475	2,457	1,880	1,418	365	97	447	195	160	92	130	18
	Number of employees <sup>2</sup> .....	56,585	56,489	17,612	13,751	2,700	1,161	35,873	21,599	3,852	10,422	3,004	96
	Value added in mining..\$1,000..	428,582	428,373	142,322	93,258	37,412	11,652	262,119	161,129	32,990	68,000	23,932	209
1111	Anthracite:												
	Number of establishments..... <sup>3</sup>	1,163	1,154	966	829	77	60	91	17	11	63	97	9
	Number of employees.....	19,712	19,703	7,301	5,505	954	842	10,019	573	752	8,694	2,383	9
	Value added in mining.....\$1,000..	142,198	142,348	60,696	33,962	18,320	8,414	63,758	3,196	4,786	55,776	17,894	( <sup>1</sup> )
1211	Bituminous coal:												
	Number of establishments.....	1,312	1,303	914	589	288	37	356	178	149	29	33	9
	Number of employees.....	36,873	36,786	10,311	8,246	1,746	319	25,854	21,026	3,100	1,728	621	87
	Value added in mining.....\$1,000..	286,384	286,025	81,626	59,296	19,092	3,238	198,361	157,933	28,204	12,224	6,038	359
	East North Central, total:												
	Number of establishments.....	612	604	316	158	138	20	274	117	137	20	14	8
	Number of employees <sup>5</sup> .....	25,201	25,164	4,000	3,816	1,807	377	420,713	412,788	6,810	1,115	4451	37
	Value added in mining..\$1,000..	283,283	283,593	53,268	31,512	33,496	36,260	428,206	4109,525	106,224	12,457	42,119	( <sup>1</sup> )
	Ohio:												
	Number of establishments.....	383	379	223	107	97	19	146	50	76	20	10	4
	Number of employees.....	9,938	9,933	2,679	931	1,371	377	6,803	3,658	2,030	1,115	451	5
	Value added in mining.....\$1,000..	100,122	100,122	34,329	5,745	22,324	6,260	63,674	27,670	23,547	12,457	2,119	..
32	Indiana:												
	Number of establishments.....	88	86	43	20	23	...	42	21	21	...	1	2
	Number of employees.....	4,104	(D)	(D)	(D)	283	...	(D)	(D)	1,493	...	(D)	(D)
	Value added in mining.....\$1,000..	44,268	(D)	(D)	(D)	8,533	...	(D)	(D)	21,340	...	(D)	(D)
33	Illinois:												
	Number of establishments.....	141	139	50	31	18	1	86	46	40	...	3	2
	Number of employees.....	11,139	(D)	(D)	744	153	(D)	10,186	6,899	3,287	...	(D)	(D)
	Value added in mining.....\$1,000..	138,893	(D)	(D)	7,172	2,639	(D)	128,242	66,905	61,337	...	(D)	(D)
	West North Central (bituminous coal only):												
	Number of establishments.....	130	130	79	34	45	...	50	18	31	1	1	...
	Number of employees.....	1,877	1,877	282	137	145	...	(D)	256	(D)	(D)	(D)	...
	Value added in mining..\$1,000..	16,022	16,022	2,409	613	1,796	...	(D)	927	(D)	(D)	(D)	...
42	Iowa:												
	Number of establishments.....	59	59	33	16	17	...	26	11	14	1	...	...
	Number of employees.....	421	421	131	81	50	...	290	(D)	149	(D)	...	...
	Value added in mining.....\$1,000..	3,552	3,552	1,050	430	620	...	2,502	(D)	1,893	(D)	...	...
43	Missouri:												
	Number of establishments.....	51	51	33	16	17	...	17	6	11	...	1	...
	Number of employees.....	1,204	1,204	88	(D)	(D)	...	(D)	(D)	1,008	...	(D)	...
	Value added in mining.....\$1,000..	9,832	9,832	747	(D)	(D)	...	(D)	(D)	8,722	...	(D)	...

See footnotes at end of table.

Table 2C.—Number of Establishments, Employment, and Value Added for the Coal Mining Industries  
Except Service Industries, by Type of Operation for Industries and  
Selected Divisions, States, and Alaska: 1958—Continued

Ind. code	Industry, division, and State	All types of estab- lishments, total	Producing establishments										Non- pro- ducing estab- lish- ments
			Total	Mining only				Mines with preparation plants				Sepa- rately operated prep- aration plants	
				Total	Under- ground mines	Open- pit mines	Combi- nation methods and other methods	Total	Under- ground mines	Open- pit mines	Combi- nation methods and other methods		
	DIVISION OR STATE—Continued												
	South Atlantic:												
	Number of establishments.....	2,655	2,637	2,078	1,869	130	79	463	335	38	90	96	18
	Number of employees.....	75,925	75,869	22,093	720,475	985	7,633	52,485	645,476	6,665	6,344	1,291	56
	Value added in mining..\$1,000..	636,742	636,775	129,568	7116,064	7,281	76,223	489,541	6423,872	65,838	59,831	17,666	(1)
	Maryland:												
	Number of establishments.....	77	76	64	50	14	...	11	6	5	...	1	1
	Number of employees.....	540	(D)	341	265	76	...	(D)	(D)	91	...	(D)	(D)
	Value added in mining.....\$1,000..	2,985	(D)	1,480	1,175	305	...	(D)	(D)	851	...	(D)	(D)
	Virginia:												
	Number of establishments.....	869	867	764	727	21	16	74	57	1	16	29	2
	Number of employees.....	13,737	(D)	7,237	(D)	194	(D)	(D)	4,872	(D)	1,243	377	(D)
	Value added in mining.....\$1,000..	100,135	(D)	34,091	(D)	1,947	(D)	(D)	46,807	(D)	13,876	5,309	(D)
	West Virginia:												
	Number of establishments.....	1,704	1,689	1,245	1,087	95	63	378	272	32	74	66	15
	Number of employees.....	61,634	(D)	14,501	13,153	715	633	46,182	40,507	574	5,101	(D)	(D)
	Value added in mining.....\$1,000..	533,574	(D)	93,949	82,697	5,029	6,223	427,671	376,729	4,987	45,955	(D)	(D)
	East South Central, total:												
	Number of establishments.....	1,730	1,721	1,359	1,180	117	62	301	214	60	27	61	9
	Number of employees.....	38,511	38,473	13,249	10,997	883	1,369	24,460	20,852	2,081	1,527	764	38
	Value added in mining..\$1,000..	302,832	302,286	81,449	55,491	9,388	16,570	214,016	159,918	40,571	13,527	6,821	546
	Kentucky:												
	Number of establishments.....	1,306	1,300	1,048	936	63	49	204	153	28	23	48	6
	Number of employees.....	28,397	28,363	10,901	9,241	444	1,216	16,817	14,012	1,337	1,468	645	34
	Value added in mining.....\$1,000..	227,458	226,908	68,118	48,304	5,228	14,586	152,931	106,870	33,088	12,973	5,859	550
	Tennessee:												
	Number of establishments.....	277	276	226	181	36	9	42	25	14	3	8	1
	Number of employees.....	2,661	(D)	1,551	1,247	229	75	(D)	835	157	(D)	66	(D)
	Value added in mining.....\$1,000..	16,575	(D)	8,561	5,129	2,232	1,200	(D)	5,424	1,736	(D)	355	(D)
	Alabama:												
	Number of establishments.....	147	145	85	63	18	4	55	36	18	1	5	2
	Number of employees.....	7,453	(D)	797	509	210	78	(D)	6,005	587	(D)	53	(D)
	Value added in mining.....\$1,000..	58,799	(D)	4,770	2,058	1,928	784	(D)	47,624	5,747	(D)	607	(D)
	West South Central (bituminous coal only):												
	Number of establishments.....	60	59	33	20	13	...	25	10	15	...	1	1
	Number of employees.....	1,059	(D)	(D)	183	(D)	...	818	403	415	...	(D)	(D)
	Value added in mining..\$1,000..	10,618	(D)	(D)	983	(D)	...	9,130	2,612	6,518	...	(D)	(D)
	Oklahoma:												
	Number of establishments.....	31	30	18	11	7	...	11	3	8	...	1	1
	Number of employees.....	807	(D)	(D)	163	(D)	...	603	297	306	...	(D)	(D)
	Value added in mining.....\$1,000..	8,537	(D)	(D)	913	(D)	...	7,201	1,982	5,219	...	(D)	(D)
	Mountain:												
	Number of establishments.....	215	214	85	76	9	...	126	108	15	3	3	1
	Number of employees.....	5,693	(D)	(D)	263	(D)	...	5,356	5,026	280	50	33	(D)
	Value added in mining..\$1,000..	48,248	(D)	(D)	1,595	(D)	...	46,220	42,245	3,692	283	341	(D)
	Wyoming:												
	Number of establishments.....	20	20	5	3	2	...	15	8	7	...	...	...
	Number of employees.....	506	506	14	(D)	(D)	...	492	(D)	(D)	...	...	...
	Value added in mining.....\$1,000..	4,244	4,244	79	(D)	(D)	...	4,165	(D)	(D)	...	...	...
	Colorado:												
	Number of establishments.....	105	105	47	46	1	...	56	49	5	2	2	...
	Number of employees.....	2,016	2,016	187	(D)	(D)	...	(D)	1,674	105	(D)	(D)	...
	Value added in mining.....\$1,000..	16,348	16,348	1,068	(D)	(D)	...	(D)	13,722	1,238	(D)	(D)	...

See footnotes at end of table.



Table 2C.—Number of Establishments, Employment, and Value Added for the Coal Mining Industries Except Service Industries, by Type of Operation for Industries and Selected Divisions, States, and Alaska: 1958—Continued

Ind. code	Industry, division, and State	All types of establishments, total	Producing establishments										Non-producing establishments
			Total	Mining only				Mines with preparation plants				Sepsa- rately operated prep- aration plants	
				Total	Under- ground mines	Open- pit mines	Combi- nation methods and other methods	Total	Under- ground mines	Open- pit mines	Combi- nation methods and other methods		
	DIVISION OR STATE--Continued												
	Mountain--Continued												
	Utah:												
	Number of establishments.....	35	35	2	2	...	...	32	32	...	...	1	...
	Number of employees.....	2,824	2,824	(D)	(D)	...	...	2,793	2,793	...	...	(D)	...
	Value added in mining.....\$1,000..	25,376	25,376	(D)	(D)	...	...	(D)	(D)	...	...	(D)	...
	Alaska:												
	Number of establishments.....	10	10	4	2	2	...	6	1	4	1	...	...
	Number of employees.....	257	257	20	(D)	(D)	...	237	(D)	(D)	(D)	...	...
	Value added in mining..\$1,000..	5,780	5,780	422	(D)	(D)	...	5,358	(D)	(D)	(D)	...	...

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>Not shown since the cost of supplies, purchased fuel and electricity, contract work, and purchased machinery installed exceeds capital expenditures.

<sup>2</sup>Includes employees at central offices and related facilities in New York.

<sup>3</sup>Figures for one mine with other methods in Illinois are included with those for underground mines.

<sup>4</sup>Figures for 4 separately operated preparation plants in Indiana and Illinois are included with those for underground mines with preparation plants.

<sup>5</sup>Includes employees at central offices and related facilities in Wisconsin.

<sup>6</sup>Figures for one open pit mine in Virginia are included with those for underground mines.

<sup>7</sup>Figures for 16 mines with combination or other methods in Virginia are included with those for underground mines.

Table 3.—Detailed Statistics for the Coal Mining Industries in the United States: 1958

Item	Coal mining industries, total	11—Anthracite mining				12—Bituminous coal and lignite mining				
		Total	1111—Anthracite	1112—Anthracite stripping services	1113—Anthracite mining services, except stripping	Total	1211—Bituminous coal	1212—Lignite	1213—Coal stripping services, nec	1214—Coal mining services, nec
Number of operating companies.....	7,455	1,157	1,075	78	6	6,300	6,102	53	137	20
Number of establishments, total.....	8,178	1,248	1,163	79	6	6,930	6,715	58	137	20
With 0-19 employees.....	6,648	1,089	1,046	37	6	5,559	5,373	50	118	18
With 20-99 employees.....	1,069	112	78	34	...	957	930	7	19	1
With 100 employees and over.....	461	47	39	8	...	414	412	1	...	1
Including mines, culm banks, and dredges.....	7,626	1,065	1,065	xxx	xxx	6,561	6,503	58	xxx	xxx
Including preparation plants.....	2,019	188	188	xxx	xxx	1,831	1,807	24	xxx	xxx
Net production of coal, total....1,000 short tons..	439,173	22,258	22,258	(1)	(1)	416,915	412,684	4,231	(1)	(1)
Underground.....do..	301,281	10,813	10,813	xxx	xxx	290,468	290,444	24	xxx	xxx
Strip pit, total.....do..	126,137	7,140	7,140	(1)	(1)	118,997	114,790	4,207	(1)	(1)
Mined by same company.....do..	115,738	1,888	1,888	xxx	xxx	113,850	109,643	4,207	xxx	xxx
Mined by contractor.....do..	10,399	5,252	5,252	(1)	(1)	5,147	5,147	...	(1)	(1)
Auger, total.....do..	7,197	...	...	(1)	(1)	7,197	7,197	...	(1)	(1)
Mined by same company.....do..	5,807	...	...	xxx	xxx	5,807	5,807	...	xxx	xxx
Mined by contractor.....do..	1,390	...	...	(1)	(1)	1,390	1,390	...	(1)	(1)
Culm bank, total.....do..	3,666	3,438	3,438	(1)	(1)	228	228	...	(1)	(1)
Mined by same company.....do..	1,646	1,418	1,418	xxx	xxx	228	228	...	xxx	xxx
Mined by contractor.....do..	2,020	2,020	2,020	(1)	(1)	...	...	...	(1)	(1)
Dredge.....do..	892	867	867	(1)	(1)	25	25	...	(1)	(1)
Net shipments of coal, total.....do..	442,754	22,341	22,341	(1)	(1)	420,413	416,183	4,230	(1)	(1)
Raw coal sold for use without preparation....do..	58,531	1,158	1,158	(1)	(1)	57,373	57,038	335	(1)	(1)
Prepared coal.....do..	384,223	21,183	21,183	(1)	(1)	363,040	359,145	3,895	(1)	(1)
Value of shipments and receipts, total....\$1,000..	2,748,489	325,128	290,342	34,463	323	2,423,361	2,390,677	11,035	19,162	2,487
Raw coal transferred to other establishments for preparation, and coal resales.....do..	423,011	91,128	91,128	xxx	xxx	331,883	331,883	...	xxx	xxx
Net shipments and receipts, total.....do..	2,325,478	234,000	199,214	34,463	323	2,091,478	2,058,794	11,035	19,162	2,487
Coal net shipments.....do..	2,262,053	196,425	196,425	xxx	xxx	2,065,628	2,054,607	11,021	xxx	xxx
Other products and services.....do..	63,425	37,575	2,789	34,463	323	25,850	4,187	14	19,162	2,487
Value added in mining.....do..	1,774,453	164,489	142,198	22,027	264	1,609,964	1,585,541	9,309	13,409	1,705
Number of persons engaged, total.....	219,693	24,676	21,507	3,114	55	195,017	192,747	567	1,461	242
Production and development workers (average for the year).....	183,580	20,047	17,266	2,737	44	163,533	161,711	437	1,180	205
All other employees.....	26,939	2,766	2,446	317	3	24,173	23,965	73	120	15
Proprietors and firm members.....	9,174	1,863	1,795	60	8	7,311	7,071	57	161	22
Performing manual labor.....	5,083	1,298	1,253	42	3	3,785	3,629	38	101	17
Man-hours worked by production and development workers, total.....1,000..	298,566	30,867	26,409	4,395	63	267,699	264,308	844	2,106	441
At mines, total.....do..	268,266	25,159	20,701	24,395	363	243,107	239,977	583	2,106	2441
Underground.....do..	199,959	15,402	15,356	...	246	184,557	184,222	21	...	2314
Strip-pit, auger, culm bank, and dredge.....do..	38,130	6,530	2,297	24,233	...	31,600	29,036	435	2,028	2101
Surface.....do..	30,177	3,227	3,048	2162	217	26,950	26,719	127	278	226
At preparation, plants.....do..	30,300	5,708	5,708	...	...	24,592	24,331	261	...	...
Man-hours spent on development and exploration work (included above).....do..	4,585	867	780	27	60	3,718	2,985	16	392	325
Principal expenses designated below, total.....\$1,000..	2,023,014	260,593	234,104	26,223	266	1,762,421	1,744,369	4,329	11,910	1,813
Wages of production and development workers.....do..	839,789	79,425	67,449	11,780	196	760,364	751,584	2,261	5,615	904
Salaries of all other employees.....do..	166,391	13,971	12,024	1,937	10	152,420	151,175	432	758	55
Supplies.....do..	379,919	25,556	16,403	9,101	52	354,363	349,532	1,133	2,999	699
Raw coal received for preparation.....do..	410,599	85,375	85,375	xxx	xxx	325,224	325,224	...	xxx	xxx
Coal received for resale without further processing.....do..	23,580	4,374	4,374	...	...	19,206	19,190	...	4	12
Purchased fuel.....do..	27,598	4,062	2,346	1,708	8	23,536	21,628	210	1,612	86
Purchased electricity.....do..	64,001	7,325	6,814	511	...	56,676	56,309	260	107	...
Contract work.....do..	111,137	40,505	39,319	1,186	...	70,632	69,727	33	815	57
Purchased machinery installed.....do..	161,988	10,033	6,317	3,615	101	151,955	147,493	1,522	2,816	124

See footnotes at end of table.



Table 3.—Detailed Statistics for the Coal Mining Industries in the United States: 1958—Continued

Item	Coal mining industries, total	11—Anthracite mining				12—Bituminous coal and lignite mining				
		Total	1111—Anthracite	1112—Anthracite stripping services	1113—Anthracite mining services, except stripping	Total	1211—Bituminous coal	1212—Lignite	1213—Coal stripping services, nec	1214—Coal mining services, nec
Capital expenditures, total.....do..	204,786	16,591	12,804	3,685	102	188,195	183,967	1,432	2,600	196
Development and exploration of mineral property.....do..	12,876	3,818	3,818	xxx	xxx	9,058	8,994	74	xxx	xxx
Preparation plant and other construction.....do..	68,542	1,879	1,811	68	...	66,663	66,462	69	130	2
New machinery and equipment.....do..	110,902	9,683	6,333	3,349	1	101,219	97,783	1,236	2,006	194
Used plant and equipment.....do..	12,466	1,211	842	268	101	11,255	10,738	53	464	...
Energy used.....million kwh equivalent..	18,784	3,881	3,347	520	8	14,903	14,303	111	467	22
Coal produced and used at same establishment for power or heat.....1,000 short tons..	662	212	212	...	...	450	449	1	...	...
Fuels purchased:										
Coal.....do..	191	101	97	3	1	90	90	...	...	...
Fuel oil.....1,000 barrels..	2,129	286	82	204	...	1,843	1,641	14	185	3
Gas.....million cu. ft..	535	...	...	...	...	535	514	21	...	...
Other fuels.....\$1,000..	8,248	1,631	1,163	467	1	6,617	6,127	88	343	59
Undistributed.....do..	6,132	379	334	41	4	5,753	5,475	34	236	8
Electric energy purchased.....million kwh..	4,916	564	534	30	...	4,352	4,303	42	7	( <sup>3</sup> )
Electric energy generated and used.....do..	148	68	68	...	...	80	80	...	...	...

<sup>1</sup>Coal mined by the coal services industries is included in the production shown for the coal industries.

<sup>2</sup>Service establishments were requested to report man-hours by kind of work performed, rather than by department. The man-hours so reported have been allocated to the mine departments where this service was performed. Thus, "underground" man-hours represent such services at drilling, rock work, shaft sinking, and mine tunnelling; "strip-pit, auger, culm-bank, and dredge" man-hours represent stripping overburden, strip-pit and auger mining, and loading culm bank material; and "surface" man-hours represent excavating, shop work, hauling from mine to preparation plant, and other miscellaneous services.

<sup>3</sup>Less than one-half of the unit of measure specified.

Table 4.—Selected Statistics for Coal Mining Establishments, Classified by Employment Size,  
for the United States and Number of Establishments by Employment  
Size for Divisions, States, and Alaska: 1958

Industry, item, division, and State	All establish- ments, total	Establishments with an average of—								
		0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees
United States, total:										
Coal mining industries:										
Number of establishments.....	8,178	3,843	1,533	1,272	791	278	277	131	48	5
All employees:										
Number.....	<sup>1</sup> 210,519	6,648	10,127	<sup>2</sup> 17,246	24,206	<sup>3</sup> 19,525	43,816	44,846	<sup>4</sup> 37,744	( <sup>4</sup> )
Payroll.....\$1,000..	<sup>1</sup> 1,006,180	19,507	30,945	<sup>2</sup> 57,118	99,172	<sup>3</sup> 91,928	232,777	239,689	<sup>4</sup> 191,378	( <sup>4</sup> )
Production and development workers:										
Number.....	183,580	6,170	8,753	<sup>2</sup> 15,433	21,822	<sup>3</sup> 17,359	39,585	40,239	<sup>4</sup> 34,219	( <sup>4</sup> )
Man-hours.....\$1,000..	298,566	10,483	12,528	<sup>2</sup> 23,672	36,119	<sup>3</sup> 29,197	65,911	67,009	<sup>4</sup> 53,647	( <sup>4</sup> )
Wages.....\$1,000..	839,789	17,948	27,122	<sup>2</sup> 50,904	87,493	<sup>3</sup> 80,195	204,249	206,105	<sup>4</sup> 165,773	( <sup>4</sup> )
Value added in mining.....do..	1,774,453	55,842	62,791	<sup>2</sup> 109,082	188,103	<sup>3</sup> 168,373	425,676	432,294	<sup>4</sup> 332,292	( <sup>4</sup> )
Value of shipments and receipts.....do..	2,748,489	110,102	112,738	<sup>2</sup> 194,821	329,455	<sup>3</sup> 285,702	668,291	608,664	<sup>4</sup> 438,716	( <sup>4</sup> )
Capital expenditures.....do..	204,786	11,348	7,490	<sup>2</sup> 16,809	25,976	<sup>3</sup> 32,897	39,722	53,535	<sup>4</sup> 17,009	( <sup>4</sup> )
Anthracite mining:										
Number of establishments.....	1,248	833	154	102	86	26	31	10	2	4
All employees:										
Number.....	<sup>1</sup> 22,813	772	1,017	1,357	2,728	1,807	<sup>5</sup> 5,876	3,261	( <sup>5</sup> )	5,389
Payroll.....\$1,000..	<sup>1</sup> 93,396	2,465	3,448	5,112	11,693	7,942	<sup>5</sup> 24,557	13,522	( <sup>5</sup> )	21,142
Production and development workers:										
Number.....	20,047	714	902	1,171	2,442	1,605	<sup>5</sup> 5,310	2,939	( <sup>5</sup> )	4,964
Man-hours.....\$1,000..	30,867	1,062	1,407	1,881	4,081	2,655	<sup>5</sup> 8,227	4,464	( <sup>5</sup> )	7,090
Wages.....\$1,000..	79,425	2,232	3,062	4,382	10,171	6,691	<sup>5</sup> 21,742	11,941	( <sup>5</sup> )	19,204
Value added in mining.....do..	164,489	18,135	8,404	9,138	18,445	13,945	<sup>5</sup> 38,855	24,944	( <sup>5</sup> )	32,623
Value of shipments and receipts.....do..	325,128	40,421	15,426	17,470	36,381	32,967	<sup>5</sup> 78,716	55,799	( <sup>5</sup> )	47,948
Capital expenditures.....do..	16,591	1,347	1,140	1,597	2,121	2,461	<sup>5</sup> 4,047	2,974	( <sup>5</sup> )	904
Bituminous coal and lignite mining:										
Number of establishments.....	6,930	3,010	1,379	1,170	705	252	246	121	46	1
All employees:										
Number.....	<sup>1</sup> 187,706	5,876	9,110	<sup>2</sup> 15,889	21,478	<sup>3</sup> 17,718	639,181	41,585	731,114	( <sup>7</sup> )
Payroll.....\$1,000..	<sup>1</sup> 912,784	17,042	27,497	<sup>2</sup> 52,006	87,479	<sup>3</sup> 83,986	<sup>6</sup> 212,886	226,167	<sup>7</sup> 165,570	( <sup>7</sup> )
Production and development workers:										
Number.....	163,533	5,456	7,851	<sup>2</sup> 14,262	19,380	<sup>3</sup> 15,754	635,425	37,300	728,105	( <sup>7</sup> )
Man-hours.....\$1,000..	267,699	9,421	11,121	<sup>2</sup> 21,791	32,038	<sup>3</sup> 26,542	659,301	62,545	<sup>7</sup> 44,940	( <sup>7</sup> )
Wages.....\$1,000..	760,364	15,716	24,060	<sup>2</sup> 46,522	77,322	<sup>3</sup> 73,504	<sup>6</sup> 186,722	194,164	<sup>7</sup> 142,354	( <sup>7</sup> )
Value added in mining.....do..	1,609,964	37,707	54,387	<sup>2</sup> 99,944	169,658	<sup>3</sup> 154,428	<sup>6</sup> 392,752	407,350	<sup>7</sup> 293,738	( <sup>7</sup> )
Value of shipments and receipts.....do..	2,423,361	69,681	97,312	<sup>2</sup> 177,351	293,074	<sup>3</sup> 252,735	<sup>6</sup> 598,106	552,865	<sup>7</sup> 382,237	( <sup>7</sup> )
Capital expenditures.....do..	188,195	10,001	6,350	<sup>2</sup> 15,212	23,855	<sup>3</sup> 30,436	<sup>6</sup> 35,820	50,561	<sup>7</sup> 15,960	( <sup>7</sup> )
Number of establishments, by industry, division, and State:										
Anthracite mining, total.....	1,248	833	154	102	86	26	31	10	2	4
Anthracite.....	1,163	816	139	91	59	19	25	8	2	4
Anthracite services.....	85	17	15	11	27	7	6	2	...	...
Bituminous coal and lignite mining, total..	6,930	3,010	1,379	1,171	704	252	246	121	46	1
Bituminous coal.....	6,715	2,899	1,338	1,136	679	251	244	121	46	1
Lignite.....	58	40	7	3	7	...	1	...	...	...
Coal services, nec.....	157	71	34	32	18	1	1	...	...	...
Division and State										
Middle Atlantic (Pennsylvania).....	2,621	1,535	384	310	218	54	69	29	17	5
Anthracite mining.....	1,248	833	154	102	86	26	31	10	2	4
Bituminous coal mining.....	1,373	702	230	208	132	28	38	19	15	1
East North Central, total.....	626	219	102	103	95	38	49	15	5	...
Ohio.....	394	160	61	76	58	20	13	5	1	...
Indiana.....	91	31	16	10	13	8	9	4	...	...
Illinois.....	141	28	25	17	24	10	27	6	4	...
West North Central, total.....	176	100	38	17	12	8	1	...	...	...
Iowa.....	62	32	18	10	1	1	...	...	...	...
Missouri.....	51	27	11	3	3	6	1	...	...	...
North Dakota.....	40	26	7	1	6	...	...	...	...	...
South Dakota.....	3	2	...	1	...	...	...	...	...	...
Kansas.....	20	13	2	2	2	1	...	...	...	...
South Atlantic, total.....	2,708	1,070	598	496	266	110	92	58	18	...
Maryland.....	80	43	16	16	4	1	...	...	...	...
Virginia.....	873	315	233	196	86	25	11	6	1	...
West Virginia.....	1,750	708	348	284	176	84	81	52	17	...
Georgia.....	5	4	1	...	...	...	...	...	...	...

See footnotes at end of table.



Table 4.—Selected Statistics for Coal Mining Establishments, Classified by Employment Size,  
for the United States and Number of Establishments by Employment  
Size for Divisions, States, and Alaska: 1958—Continued

Industry, item, division, and State	All establish- ments, total	Establishments with an average of—								
		0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees
East South Central, total.....	1,746	752	376	317	160	52	58	25	6	...
Kentucky.....	1,314	572	273	235	121	43	50	17	3	...
Tennessee.....	281	140	67	47	19	4	4	...	...	...
Alabama.....	151	40	36	35	20	5	4	8	3	...
West South Central, total.....	67	36	8	7	11	2	2	1	...	...
Arkansas.....	29	18	5	2	4	...	...	...	...	...
Oklahoma.....	35	17	3	5	6	2	1	1	...	...
Texas.....	3	1	...	...	1	...	1	...	...	...
Mountain, total.....	221	125	26	22	25	13	5	3	2	...
Montana.....	33	28	2	1	1	1	...	...	...	...
Idaho.....	1	1	...	...	...	...	...	...	...	...
Wyoming.....	23	10	4	2	3	3	1	...	...	...
Colorado.....	105	64	9	11	14	4	1	2	...	...
New Mexico.....	22	11	8	2	...	1	...	...	...	...
Arizona.....	2	...	1	1	...	...	...	...	...	...
Utah.....	35	11	2	5	7	4	3	1	2	...
Pacific (Washington).....	13	6	1	1	3	1	1	...	...	...
Alaska.....	10	2	2	2	2	2	...	...	...	...

<sup>1</sup>Includes data for separately reported central offices and related facilities.

<sup>2</sup>Includes data for 2 larger establishments in Industry 1214—Coal mining services, nec, one with 20-49 employees and one with 100-249 employees.

<sup>3</sup>Excludes data for one establishment in Industry 1213—Coal stripping services, nec.

<sup>4</sup>Figures for 5 establishments with 1,000-2,499 employees, 4 in Industry 1111—Anthracite, and 1 in Industry 1211—Bituminous coal, are combined with those for establishments with 500-999 employees; the combined figures also include a net adjustment for 3 smaller establishments to compensate for the inclusions and exclusions described in footnotes 2 and 3.

<sup>5</sup>Figures for 2 establishments in Industry 1111—Anthracite with 500-999 employees are combined with those for establishments with 100-249 employees.

<sup>6</sup>Figures include a net adjustment for 3 smaller establishments to compensate for the inclusions and exclusions described in footnotes 2 and 3.

<sup>7</sup>Figures for 1 establishment in Industry 1211—Bituminous coal, with 1,000-2,499 employees, are combined with those for establishments in the same industry with 500-999 employees.

## Anthracite Mining

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Major Industry Group 11, Anthracite Mining. This major group covers establishments primarily engaged in producing anthracite (hard coal). The separate industries included in this group are as follows:

### S.I.C. Code and Title (1957 Edition)

- 1111--Anthracite
- 1112--Anthracite stripping services
- 1113--Anthracite mining services, except strip mining

Industry 1111, Anthracite. This industry represents establishments primarily engaged in producing anthracite or in developing anthracite mines. All establishments in the United States that are classified in this industry are in Pennsylvania. This industry includes underground mines, stripping or culm bank operations by owners or lessees, dredge operations, and coal preparation plants (breakers, washeries, and screening plants) whether or not operated in conjunction with the mines served.

Industry 1112, Anthracite Stripping Services. This industry represents establishments primarily engaged in overburden stripping and strip mining for fresh or culm bank anthracite for others on a contract, fee, or other basis.

Industry 1113, Anthracite Mining Services, Except Strip Mining. This industry represents establishments primarily engaged in performing anthracite mining services, except stripping services, for others on a contract, fee, or other basis. Included are services such as drilling, mine tunnelling, shaft sinking, and pumping or draining mines.

The production of fuel briquets and packaged fuel is classified in Industry 2999, Products of Petroleum and Coal, N.E.C., and the production of manufactured gas from coal in Industry 4925, Mixed, Manufactured, or L.P. Gas Production and/or Distribution.

The combined value of shipments of the industries in Major Group 11 amounted to \$324 million in 1958. Of this total, the Anthracite Industry had shipments of \$290 million, including \$86 million for raw coal sold or transferred to other establishments in the industry for preparation and \$5 million for shipments of coal purchased

and resold without further processing, or net shipments of \$199 million. The Anthracite Stripping Services Industry, with receipts of \$34 million, and the Anthracite Mining Services, Except Strip Mining, Industry, with receipts of \$0.3 million, accounted for the remainder.

Net shipments of anthracite amounted to 22 million tons in 1958. An additional 0.2 million tons of anthracite were mined and used at the same establishment for power or heat.

Net production, net shipments, and transfers for preparation. The figures for "net shipments" represent all prepared anthracite for shipment, sale, or employee use, including coal for stock, reported by breaker, washery, and dredge operators, plus raw anthracite sold for use without preparation. The net shipments figures exclude coal used at the producing mine or preparation plant for power or heat. They also exclude the raw coal sold or transferred to other establishments for preparation, thus eliminating the duplication in "total" shipments which results from inclusion of the value of both the raw coal sold or transferred for preparation and the clean coal recovered therefrom. For individual counties the net shipments figures include the prepared coal recovered from raw coal mined in other counties.

"Net production," on the other hand, represents the net tonnage of anthracite mined, excluding breaker, washery, and other refuse, based on the location of the mining operation. For individual counties the figures represent the net usable product from mines, culm banks, and dredges located within the boundaries of the designated area. At the mine level, the net production includes the tonnage of coal mined and prepared at the same establishment, coal used at the establishment for power or heat, the prepared or sized coal equivalent of raw coal mined for preparation at other establishments, and any raw coal sold for use without preparation.

Over 95 percent of all anthracite mined is prepared prior to use. The coal beds in the anthracite region are, in general, steeply pitching, and much folded and faulted. Steep-pitch mining makes it necessary to bring to the surface all material which is mined, including large quantities of slate and other refuse. In 1958, about 34 million tons of raw coal were processed at preparation plants. Of this quantity, 14 million



tons of raw coal were mined and prepared at the same establishment.

**Contract work.** Stripping of fresh-mined anthracite and loading of culm-bank material by contractors represent a significant component of anthracite mining. Anthracite operators reported a total of 7 million tons of strip-pit coal produced, of which over 5 million tons were mined for them by contractors. Of the over 3 million tons of culm-bank coal produced, 2 million tons were mined by contractors.

Establishments classified in the Anthracite Stripping Services Industry reported receipts of \$34 million for services performed at strip pits and culm banks. A total of 3,054 persons were engaged in these services, accounting for approximately 13 percent of the total number of persons engaged in the Anthracite Mining Industries.

Establishments classified in the anthracite services industries were permitted to file one report for all mining services performed in the United States. These reports were classified on the basis of the principal type of services performed and the principal industry served to determine their industry or subindustry classification. Each report included data on the amount received for services, the number of employees in March, and the tonnage of raw anthracite mined by State and county. For geographic area statistics all other figures in each report were allocated on the basis of these reported data.

The figures in this report for the two anthracite services industries—Anthracite Stripping Services and Anthracite Mining Services, except Strip Mining—cover, except for hauling, all service activities which represent an integral part of anthracite mining operations. Receipts by these contractors represent 86 percent of the total payments for contract services by the Anthracite Mining Industries and a small amount of additional contract work was done by operators of anthracite properties, presumably primarily for other anthracite operators. These services probably represent nearly complete coverage of the types of contract service operations classified in the mineral industries.

**Secondary production.** The general statistics (employment, payrolls, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the production of secondary products and in the performance of contract work for others. This fact should be taken into account in comparing industry statistics (tables 1-4 and 7-12) with product statistics (table 6) showing shipments by all industries of

the primary products of the specified industry. The extent of the "product mix" is indicated in table 5 which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries. However, secondary products and services in the Anthracite Industry amounted to only about one percent of the total value of shipments for the industry. All anthracite was produced in the Anthracite Industry, none being produced as a secondary product in other industries.

**Comparability with Bureau of Mines Statistics.** Some differences occur in the similar statistics prepared by the two agencies, arising principally from differences in methods followed and objectives sought. Some of the comparable product statistics of the two agencies are shown in the table below. The reasons for such differences, to the extent that they pertain to statistics for the anthracite mining industries, are summarized below:

1. The Bureau of the Census excludes small establishments whose value of products and reported costs were less than \$500. The Bureau of Mines includes all establishments regardless of size. However, the contribution to product of such establishments is usually small.

2. The Bureau of Mines statistics on both production and shipments are based primarily on data reported by breakers, washeries, and dredges, but also include some coal sold for use without preparation. The quantity and value of the coal so reported is then distributed among the counties from which the coal originated. The Census statistics are on an establishment basis and take into account the actual location and type of product of the establishment as reported by the respondent, making a distinction between "net production" and "net shipments." The Bureau of Mines statistics therefore are comparable by county only with the Census statistics for "net production" and are not comparable with the Census county figures for "net shipments."

3. Both agencies collect information on coal shipped for use as raw coal and on raw coal shipped for preparation, as well as on the prepared product. However, the Census figures for coal shipped for use as raw coal include sizable tonnages supplied to public utility, manufacturing, and other industrial plants, whereas considerably smaller tonnages of such coal appear to have been included by the Bureau of Mines.

4. Differences exist in establishment coverage in certain areas for both collection agencies.

# ANTHRACITE MINING

11B-3

QUANTITY AND VALUE OF ANTHRACITE AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU OF MINES FOR THE UNITED STATES, SELECTED COUNTIES, AND BY METHOD OF MINING: 1958

Product	Bureau of the Census statistics			Bureau of Mines statistics		
	Production (1,000 short tons)	Shipments including interplant transfers		Production (1,000 short tons)	Shipments	
		Quantity (1,000 short tons)	Value (\$1,000)		Quantity (1,000 short tons)	Value (\$1,000)
Anthracite:						
Net production and shipments....	22,258 {	<sup>1</sup> 21,630 <sup>2</sup> 22,341	<sup>1</sup> 197,218 <sup>2</sup> 196,425	} 21,171	20,976	186,665
SELECTED COUNTIES						
Lackawanna.....	2,319	<sup>2</sup> 22,332	<sup>2</sup> 24,257	2,073	2,024	19,746
Luzerne.....	6,814	<sup>2</sup> 7,011	<sup>2</sup> 70,396	6,812	6,705	67,142
Northumberland.....	2,577	<sup>2</sup> 2,556	<sup>2</sup> 18,410	2,628	2,624	20,285
Schuylkill.....	8,366	<sup>2</sup> 8,962	<sup>2</sup> 75,072	7,946	7,913	68,376
METHOD OF MINING						
Open pit.....	7,140	(NA)	(NA)	6,878	(NA)	(NA)
Underground.....	10,813	(NA)	(NA)	10,698	(NA)	(NA)
Culm bank.....	3,438	(NA)	(NA)	2,903	(NA)	(NA)
Dredge.....	867	(NA)	(NA)	692	(NA)	(NA)

<sup>1</sup>Represents gross shipments less receipts from other establishments for preparation.

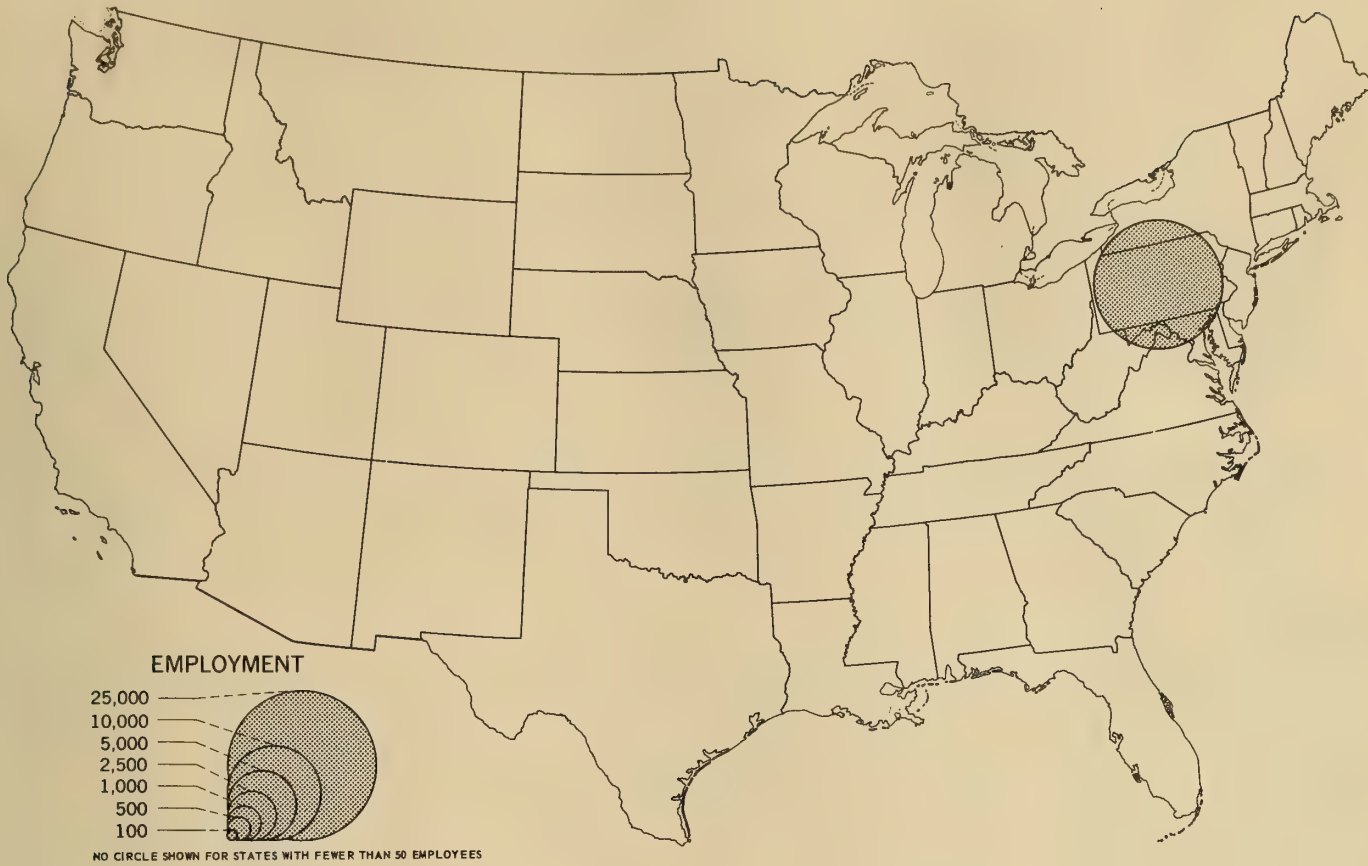
<sup>2</sup>Represents raw coal shipped for use without preparation plus prepared coal.





# ANTHRACITE MINING

## Distribution of Employment by State:1958



## Employment and Production:1840-1958

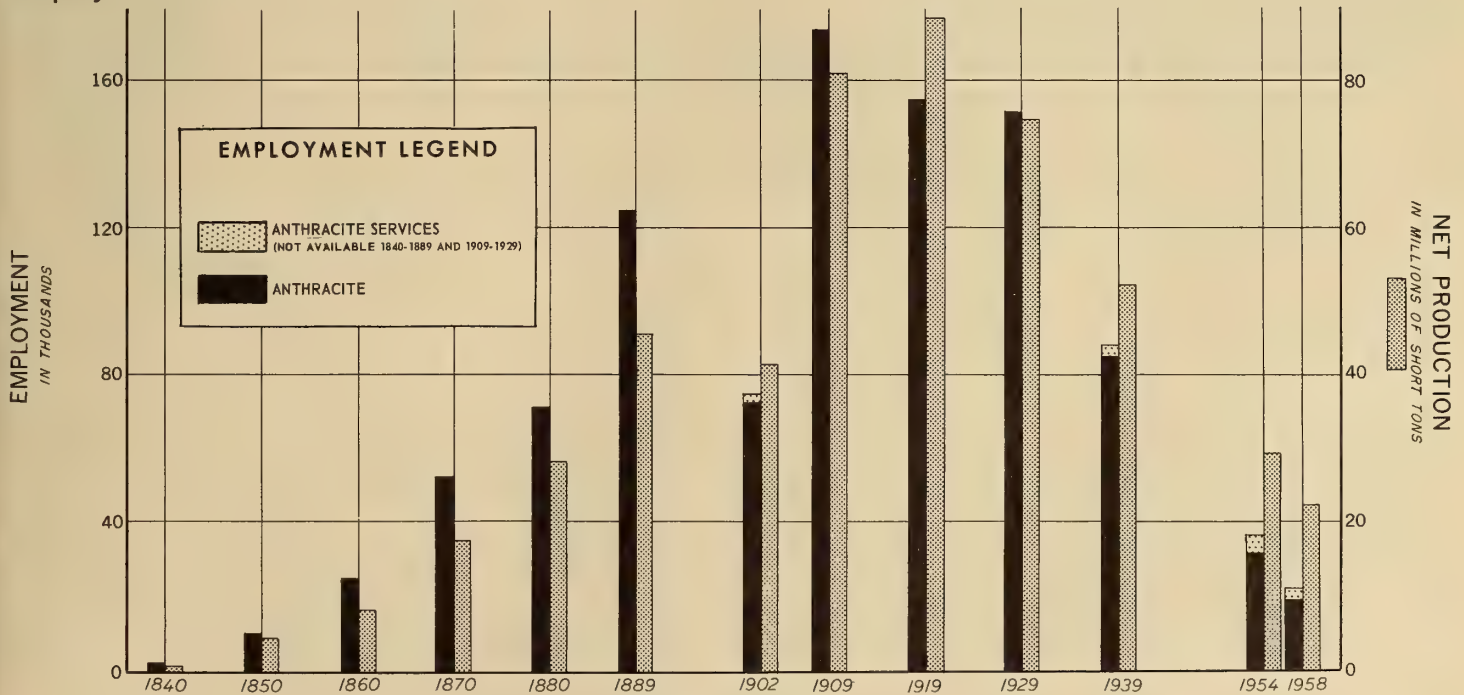




Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanations of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. I)

Ind. code	Industry and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts (\$1,000)	Value of net shipments and receipts (\$1,000)	Net production of anthracite <sup>1</sup> (1,000 short tons)	Capital expenditures (\$1,000)
			Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		Supplies, purchases for resale, and purchased fuels and electricity	Coal received for preparation	Contract or sub-contract work	Purchased machinery installed				
111	ANTHRACITE MINING:																	
	1958.....	1,157	1,248	159	22,813	93,396	20,047	30,867	79,425	164,489	41,317	85,375	40,505	10,033	325,128	234,000	22,256	16,591
	1954.....	1,296	1,436	245	37,462	135,929	33,026	48,266	113,932	196,835	41,746	119,848	51,226	9,270	408,431	291,408	29,255	10,494
	1939.....	359	518	(NA)	88,592	120,050	83,112	124,462	107,798	154,023	35,933	(NA)	11,170	(NA)	201,126	51,865	(NA)	(NA)
	1935 <sup>3</sup> .....	(NA)	(NA)	(NA)	99,308	134,761	92,438	(NA)	120,102	(NA)	38,534	(NA)	(NA)	(NA)	(NA)	52,159	(NA)	(NA)
1111	ANTHRACITE:																	
	1958.....	1,075	1,163	117	19,712	79,473	17,266	26,409	67,449	142,198	29,937	85,375	39,319	6,317	290,342	199,214	22,258	12,804
	1954.....	1,160	1,291	186	32,769	118,070	28,823	42,061	98,678	167,090	30,659	119,848	50,156	5,667	365,536	248,513	29,255	7,824
	1939.....	289	518	(NA)	85,713	115,860	80,429	120,085	104,378	146,418	32,201	(NA)	11,029	(NA)	(NA)	109,640	51,865	(NA)
	1935 <sup>3</sup> .....	(NA)	350	(NA)	96,053	130,581	89,385	(NA)	116,364	174,665	35,686	(NA)	(NA)	(NA)	(NA)	210,351	52,159	(NA)
	1929.....	(NA)	198	(NA)	151,171	251,249	142,801	(NA)	229,967	320,756	57,296	(NA)	6,802	5,580	(NA)	384,854	74,546	(NA)
	1919 <sup>4</sup> .....	(NA)	254	(NA)	154,723	223,284	147,372	(NA)	210,289	289,049	73,044	433	1,558	(NA)	364,084	363,651	88,171	(NA)
	1909.....	198	365	(NA)	173,779	96,926	169,471	(NA)	92,343	120,601	26,724	...	1,703	(NA)	149,028	149,028	80,987	(NA)
	1902.....	119	5369	(NA)	72,705	41,623	69,691	(NA)	38,716	63,027	12,741	(NA)	406	(NA)	(NA)	76,174	41,374	(NA)
	1889.....	(NA)	2411	(NA)	124,203	39,278	122,375	(NA)	37,768	52,567	10,822	(NA)	2,333	(NA)	(NA)	65,722	45,545	(NA)
	1880.....	(NA)	275	(NA)	70,975	22,751	69,688	(NA)	(NA)	35,541	6,742	(NA)	(NA)	(NA)	(NA)	42,283	28,641	(NA)
	1870.....	(NA)	229	(NA)	53,021	22,983	(NA)	(NA)	(NA)	34,841	3,596	(NA)	(NA)	(NA)	(NA)	38,437	17,528	(NA)
	1860.....	(NA)	176	(NA)	25,126	5,503	(NA)	(NA)	(NA)	10,232	1,638	(NA)	(NA)	(NA)	(NA)	11,870	8,115	(NA)
	1850.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	5,269	4,138	(NA)
	1840.....	(NA)	(NA)	(NA)	2,977	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	963	(NA)
1112	ANTHRACITE STRIPPING SERVICES:																	
	1958.....	78	79	42	3,054	13,717	2,737	4,395	11,780	22,027	11,320	xxx	1,186	3,615	34,463	34,463	(?)	3,685
	1954.....	131	132	56	4,556	17,380	4,074	6,038	14,809	29,079	10,909	xxx	1,068	3,529	42,048	42,048	(?)	2,537
	1939.....	58	(NA)	(NA)	2,646	3,915	2,461	4,038	3,166	7,126	3,669	xxx	141	(NA)	10,936	10,936	(?)	11,000
	1935.....	(NA)	(NA)	(NA)	3,255	4,180	3,053	(NA)	3,738	(NA)	2,848	xxx	(NA)	(NA)	(NA)	(NA)	(?)	(NA)
	1902 <sup>5</sup> .....	(NA)	(NA)	(NA)	1,731	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	xxx	(NA)	(NA)	(NA)	406	(?)	(NA)
1113	ANTHRACITE MINING SERVICES, NEC:																	
	1958.....	6	6	...	47	206	44	63	196	264	60	xxx	...	101	323	323	(?)	102
	1954.....	13	13	3	137	479	129	167	445	666	178	xxx	2	74	847	847	(?)	73
	1939.....	13	(NA)	(NA)	233	275	222	339	254	479	63	xxx	(NA)	(NA)	542	542	(?)	19

NA Not available.

<sup>1</sup>Revised.<sup>1</sup>Represents the clean-coal equivalent of all coal mined, based on the location of the mine, including coal produced and used at the same establishment for power or heat.<sup>2</sup>Represents number of mines, culm banks, and dredges.<sup>3</sup>Represents Anthracite (producing operations only) and Anthracite stripping services. Data are not available for Anthracite mining services, nec.<sup>4</sup>Represents producing operations only.<sup>5</sup>Represents number of preparation plants and dredges.<sup>6</sup>Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.<sup>7</sup>Coal mined by the Anthracite Services Industries is included in the production shown for the Anthracite Industry.<sup>8</sup>Represents number of employees engaged in all contract work and payments for all contract work as reported by companies operating anthracite mines.

Table 2.—General Statistics by County and Type of Operation: 1958 and 1954

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries by County see table 2 of the corresponding chapter of 1954 Census of Mineral Industries, Vol. I)

Ind. code	Industry, county, and type of operation	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Net production of anthracite <sup>1</sup> (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1111	ANTHRACITE: United States (Pennsylvania), total....	1,163	117	19,712	79,473	17,266	26,409	67,449	142,198	160,948	290,342	22,258	12,804	32,769	167,090
	County														
	Carbon.....	6	4	324	1,353	271	428	1,087	1,785	2,818	4,523	355	80	903	7,154
	Columbia.....	62	5	611	2,432	548	831	2,102	4,436	3,281	6,680	951	1,037	601	3,892
	Dauphin.....	39	2	140	411	129	189	384	906	1,268	2,020	155	154	96	595
	Lackawanna.....	100	17	3,232	12,009	2,663	3,846	9,423	15,967	21,748	36,750	2,319	965	5,318	23,949
	Luzerne.....	107	42	7,354	30,849	6,391	9,825	25,938	45,841	51,094	94,046	6,814	2,889	14,819	70,308
	Northumberland.....	287	9	1,685	5,758	1,506	2,310	5,064	13,267	18,008	30,407	2,577	868	3,216	16,500
	Schuylkill.....	542	37	6,216	26,034	5,619	8,697	22,869	57,914	62,092	113,343	8,366	6,663	7,660	43,415
	Other counties <sup>2</sup> .....	20	1	150	627	139	283	582	2,082	639	2,573	721	148	156	1,277
	Type of operation														
	Producing establishments, total.....	1,154	117	19,703	79,447	17,260	26,402	67,435	142,348	160,776	290,342	22,258	12,782	32,716	167,380
	Mining operations only, total.....	966	59	7,301	28,513	6,651	10,119	25,506	60,696	36,822	90,807	13,093	6,711	13,915	76,348
	Strip pit.....	77	8	954	3,901	870	1,199	3,510	18,320	21,598	36,110	4,270	3,808	299	11,480
	Underground.....	829	46	5,505	21,003	5,022	7,787	18,992	33,962	9,783	41,218	5,913	2,527	11,915	56,206
	Culm bank.....	52	...	84	352	74	110	279	4,836	2,240	6,945	2,044	131	21	839
	Combination <sup>3</sup> .....	8	5	758	3,257	685	1,023	2,725	3,578	3,201	6,534	866	245	1,680	7,823
	Mining operations with preparation plants, total	72	37	9,844	39,453	8,798	13,126	34,589	61,808	57,351	116,063	8,275	3,096	16,798	82,461
	Strip pit.....	11	8	752	3,394	642	1,180	2,906	4,786	8,216	12,901	901	101	850	5,465
	Underground.....	17	6	573	2,322	547	870	2,200	3,196	2,084	5,101	406	179	4,522	18,680
	Culm bank.....	28	8	503	1,859	419	597	1,503	4,129	9,087	12,020	773	1,196	1,003	6,884
	Combination <sup>4</sup> .....	16	15	8,016	31,878	7,190	10,479	27,980	49,697	37,964	86,041	6,195	1,620	10,423	51,432
	Preparation plants only, total.....	97	20	2,383	10,746	1,651	2,832	6,664	17,894	65,954	81,074	...	2,774	1,815	7,091
	Mechanical cleaning, total <sup>5</sup> .....	81	20	2,316	10,540	1,588	2,728	6,472	17,305	64,687	79,290	...	2,702	61,815	67,091
	Coarse sizes only <sup>7</sup> .....	9	2	349	1,615	219	352	873	2,298	8,243	10,451	...	90	61,796	6,955
	Coarse and fine sizes <sup>7</sup> .....	63	17	1,903	8,622	1,320	2,272	5,348	14,292	54,482	66,205	...	2,569	619	6136
	Fine sizes only <sup>7</sup> .....	9	1	64	303	49	104	251	715	1,962	2,634	...	43	...	...
	Mechanical crushing, screening, and sizing only.....	16	...	67	206	63	104	192	589	1,267	1,784	...	72	(6)	(6)
	Dredges.....	19	1	175	735	160	325	676	1,950	649	2,398	890	201	188	1,480
	Nonproducing establishments.....	9	...	9	26	6	7	14	(8)	172	...	...	22	53	(9)
	ANTHRACITE SERVICES: <sup>9</sup>														
	United States (Pennsylvania), total....	985	942	3,101	13,923	2,781	4,458	11,976	22,291	16,282	34,786	(10)	3,787	4,693	29,745
1112	Anthracite stripping services.....	979	942	3,054	13,717	2,737	4,395	11,780	22,027	16,121	34,463	(10)	3,685	4,556	29,079
1113	Anthracite mining services, nec.....	96	...	47	206	44	63	196	264	161	323	(10)	102	137	666
	Selected counties														
	Carbon.....	8	3	136	521	114	177	451	761	402	1,055	(10)	108	276	1,585
	Columbia.....	6	4	154	603	139	194	523	950	715	1,629	(10)	36	...	...
	Lackawanna.....	18	3	201	1,053	183	325	931	2,176	1,449	3,367	(10)	258	331	1,972
	Luzerne.....	25	16	1,900	14,152	810	1,400	3,539	6,139	4,849	10,278	(10)	710	981	8,420
	Northumberland.....	9	4	295	1,377	273	466	1,237	1,730	2,071	3,588	(10)	213	388	2,880
	Schuylkill.....	38	17	1,407	6,176	1,254	1,881	5,256	10,438	6,753	14,737	(10)	2,454	2,717	14,888
	Services by principal kind of work														
	ANTHRACITE STRIPPING SERVICES:														
	Strip pit mining and removal of overburden...	55	33	2,521	11,467	2,247	3,709	9,837	17,608	13,840	28,089	(10)	3,695	3,695	23,842
	Strip pit mining and load- ing culm bank material...	9	5	344	1,506	308	488	1,264	3,305	1,545	4,766	(10)	84	474	3,353
	Loading culm bank material only.....	15	4	203	726	184	245	662	1,244	582	1,601	(10)	225	387	1,884

NA Not available. <sup>1</sup>Represents the clean-coal equivalent of all coal mined, based on the location of the mine. <sup>2</sup>Represents Berks, Lancaster, Lebanon, Northampton, Snyder, Sullivan, Susquehanna (1958 only), and Wayne Counties. <sup>3</sup>For 1958, represents 3 combination strip pit and underground operations; 3 strip pit and culm bank operations; one underground and culm bank operation; and one strip pit, underground, and culm bank operation. For 1954, excludes data for one combination strip pit and culm bank. <sup>4</sup>For 1958, represents 10 combination strip pit and underground operations; 2 strip pit and culm bank operations; 2 underground and culm bank operations; and 2 strip pit, underground, and culm bank operations. For 1954 included data for one combination strip pit and culm bank without a preparation plant. <sup>5</sup>Represents cleaning by wet washing or pneumatic methods (breakers and washeries). <sup>6</sup>Figures for establishments engaged only in mechanical crushing, screening, or sizing are included with those for establishments engaged in mechanical cleaning by wet washing or pneumatic methods. The figures shown for coarse sizes and for combined coarse and fine sizes represent breakers and washeries. <sup>7</sup>Coarse sizes represent rice and larger sizes. Fine sizes represent barley and smaller sizes. <sup>8</sup>Not shown since cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeds value of shipments and receipts plus capital expenditures. <sup>9</sup>Service companies were permitted to prepare one report for all mining services performed. The totals shown for number of establishments in this table, and all figures shown for number of establishments in other tables of this report, are the counts of these reports. However, these reports contained data for the total receipts for services, total employment (for 1954 man-hours), and tonnage of raw coal mined by county. All other county information for these industries in this table was obtained by allocating the totals reported for each establishment on the basis of the reported county data. The number of establishments shown by county represents the number of operations in separate counties. <sup>10</sup>Coal mined by Anthracite Services Industries is included in the production shown for the Anthracite Industry. <sup>11</sup>Includes data for separately reported central offices and related facilities in New York State.



Table 3.—Detailed Statistics for Industries, Selected Counties,

	Item	111— Anthra- cite mining indus- tries, total	1111—Anthracite industry selected types of operation for producing establishments									
			All counties (Penn- sylvania)	Selected counties						Producing mining operations only		
				Carbon	Columbia	Lacka- wanna	Luzerne	Northum- berland	Schuyl- kill	Total	Strip pit	
1	Number of establishments, total.....	1,248	1,163	6	62	100	107	287	542	966	77	
2	With 0-19 employees.....	1,089	1,046	2	57	83	65	278	505	907	69	
3	With 20-99 employees.....	112	78	3	3	11	28	7	23	41	6	
4	With 100 employees and over.....	47	39	1	2	6	14	2	14	18	2	
5	Including mines, culm banks, and dredges.....	1,065	1,065	5	62	90	102	266	490	966	77	
6	Including preparation plants.....	188	188	3	3	17	23	31	79	xxx	xxx	
7	Net production of anthracite, total.....1,000 short tons..	22,258	22,258	355	951	2,319	6,814	2,577	8,366	13,093	4,270	
	Fresh-mined coal from:											
8	Underground operations.....do....	10,813	10,813	( <sup>2</sup> )	<sup>2</sup> 646	1,346	4,379	1,344	3,054	6,434	xxx	
9	Strip-pit operations, total.....do....	7,140	7,140	( <sup>2</sup> )	<sup>2</sup> 509	622	1,935	591	3,416	4,429	4,270	
10	Mined by same company.....do....	1,888	1,888	( <sup>2</sup> )	<sup>2</sup> 251	155	186	34	1,200	1,435	1,362	
11	Mined by contractor.....do....	5,252	5,252	...	258	467	1,749	557	2,216	2,994	2,908	
	Reclaimed coal from:											
12	Culm-bank operations, total.....do....	3,438	3,438	127	<sup>3</sup> 24	351	500	628	<sup>3</sup> 1,896	2,230	xxx	
13	Mined by same company.....do....	1,418	1,418	127	<sup>3</sup> 24	103	244	342	<sup>3</sup> 732	780	xxx	
14	Mined by contractor.....do....	2,020	2,020			248	286	1,164	1,450	xxx	xxx	
15	Dredge operations.....do....	867	867	...	( <sup>3</sup> )	...	...	14	( <sup>3</sup> )	xxx	xxx	
16	Net shipments of anthracite, total.....do....	22,341	22,341	446	89	2,332	7,011	2,556	8,962	1,148	77	
17	Raw coal sold for use without prepara- tion.....do....	1,158	1,158	( <sup>2</sup> )	<sup>2</sup> 50	54	149	324	561	1,148	77	
18	Prepared coal.....do....	21,183	21,183	( <sup>2</sup> )	<sup>2</sup> 485	2,278	6,862	2,232	8,401	xxx	xxx	
19	Value of shipments and receipts, total...\$1,000..	325,128	290,342	4,523	6,680	36,750	94,046	30,407	113,343	90,807	36,110	
20	Raw coal transferred to other es- tablishments for preparation and coal resales.....do....	91,128	91,128	4,523	6,680	11,799	22,392	(D)	37,454	86,755	35,069	
21	Net shipments and receipts, total.....do....	234,000	199,214			24,951	71,654	(D)	75,889	4,052	1,041	
22	Coal net shipments.....do....	196,425	196,425			<sup>2</sup> 4,275	70,396	18,410	75,072	2,927	1,041	
23	Other products and services.....do....	37,575	2,789	...	...	694	1,258	(D)	817	1,125	...	
24	Value added in mining.....do....	164,489	142,198	1,785	4,436	15,967	45,841	13,267	57,914	60,696	18,320	
25	Number of persons engaged, total.....	24,676	21,507	324	715	3,334	7,435	2,188	7,133	8,914	984	
26	Production and development workers, average for year.....	20,047	17,266	271	548	2,663	6,391	1,506	5,619	6,651	870	
27	January.....	22,235	19,282	386	578	3,471	7,134	1,543	5,977	7,581	1,026	
28	February.....	21,789	18,955	379	569	3,412	7,013	1,516	5,876	7,196	1,024	
29	March.....	21,290	18,446	267	607	3,277	6,869	1,492	5,684	7,106	1,008	
30	April.....	19,485	16,837	337	505	2,357	6,230	1,515	5,556	5,727	929	
31	May.....	19,511	16,815	274	556	2,424	6,220	1,490	5,568	6,066	880	
32	June.....	19,196	16,436	329	493	2,301	6,081	1,479	5,424	5,855	682	
33	July.....	19,503	16,897	338	507	2,197	6,421	1,521	5,576	6,405	673	
34	August.....	19,386	16,587	279	498	2,203	6,268	1,513	5,554	6,610	734	
35	September.....	19,663	16,802	336	504	2,184	6,385	1,512	5,545	6,575	904	
36	October.....	20,200	17,329	347	520	2,773	6,238	1,559	5,719	6,974	931	
37	November.....	20,093	17,318	261	551	2,780	6,225	1,512	5,721	6,871	856	
38	December.....	19,915	17,141	338	507	2,704	6,185	1,321	5,777	6,901	862	
39	Other employees.....	2,766	2,446	53	63	569	963	179	597	650	84	
40	Proprietors and firm members.....	1,863	1,795	...	104	102	81	503	917	1,613	30	
41	Performing manual labor.....	1,298	1,253	...	78	74	61	348	628	1,106	28	
42	Man-hours worked by production and development workers, total.....1,000..	30,867	26,409	428	831	3,846	9,825	2,310	8,697	10,119	1,199	
43	At mines, total.....do....	25,159	20,701	333	768	2,921	8,432	1,681	6,389	10,119	1,199	
44	Underground.....do....	15,402	15,356	148	534	2,480	6,634	1,376	4,139	7,676	...	
45	Strip-pits, culm banks, and dredges.....do....	6,530	2,297	118	110	149	248	81	1,462	1,393	1,183	
46	Surface (including mine shops and yards).....do....	3,227	3,048	67	124	292	1,550	224	788	1,050	16	
47	At preparation plants.....do....	5,708	5,708	95	63	925	1,393	629	2,308	...	...	
48	Man-hours spent on development and ex- ploration work (included above).....do....	2,390	780	...	5	23	61	30	660	684	469	
49	Principal expenses designated below, total.....\$1,000..	260,593	234,104	4,141	5,162	33,261	79,462	23,310	85,983	63,501	24,702	
50	Wages of production and development workers.....do....	79,425	67,449	1,087	2,102	9,423	25,938	5,064	22,869	25,506	3,510	
51	Salaries of all other employees.....do....	13,971	12,024	266	330	2,586	4,911	694	3,165	3,007	391	
52	Supplies.....do....	25,556	16,403	1,632	{	814	1,904	5,388	1,810	5,843	2,984	
53	Raw anthracite received for prepara- tion.....do....	85,375	85,375			...	13,911	27,569	10,462	31,217	...	...
54	Anthracite received for resale with- out further processing.....do....	4,374	4,374			...	...	522	289	200	3,341	505
55	Purchased fuel.....do....	4,062	2,346	21	87	414	394	446	861	1,712	353	
56	Purchased electricity.....do....	7,325	6,814	154	285	1,007	1,969	593	2,665	2,016	455	
57	Contract work.....do....	40,505	39,319	981	1,544	3,494	13,004	4,041	16,022	21,227	16,850	

See footnotes at end of table.

## and Selected Types of Operation: 1958

1111—Anthracite industry selected types of operation for producing establishments—Continued													1112—Anthracite stripping services industry	1113—Anthracite mining services, nec industry	
Producing mining operations only—Continued			Producing mining operations with preparation plants					Producing preparation plants only							
Under-ground	Culm bank	Combination	Total	Strip pit	Under-ground	Culm bank	Combination	All plants	Mechanical cleaning						
									All plants	Coarse sizes (rice and larger) only	Coarse and fine sizes				
829	52	8	72	11	17	28	16	97	81	9	63	79	6	1	
783	52	3	35	3	11	20	1	77	61	7	46	37	6	2	
32	...	3	19	5	4	7	3	17	17	1	15	34	...	3	
14	...	2	18	3	2	1	12	3	3	1	2	8	...	4	
829	52	8	72	11	17	28	16	xxx	xxx	xxx	xxx	xxx	xxx	5	
xxx	xxx	xxx	72	11	17	28	16	97	81	9	63	xxx	xxx	6	
5,913	2,044	866	8,275	901	406	773	6,195	xxx	xxx	xxx	xxx	(1)	(1)	7	
5,913	xxx	521	4,379	xxx	406	xxx	3,973	xxx	xxx	xxx	xxx	(1)	(1)	8	
xxx	xxx	159	2,690	901	xxx	xxx	1,789	xxx	xxx	xxx	xxx	(1)	(1)	9	
xxx	xxx	73	432	423	xxx	xxx	9	xxx	xxx	xxx	xxx	(1)	(1)	10	
xxx	xxx	86	2,258	478	xxx	xxx	1,780	xxx	xxx	xxx	xxx	(1)	(1)	11	
xxx	2,044	186	1,206	xxx	xxx	773	433	xxx	xxx	xxx	xxx	(1)	(1)	12	
xxx	661	119	636	xxx	xxx	518	118	xxx	xxx	xxx	xxx	(1)	(1)	13	
xxx	1,383	67	570	xxx	xxx	255	315	xxx	xxx	xxx	xxx	(1)	(1)	14	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	(1)	(1)	15	
89	903	79	12,010	1,286	597	1,632	8,495	8,447	8,236	963	6,910	(1)	(1)	16	
89	903	79	10	...	4	6	...	xxx	xxx	xxx	xxx	(1)	(1)	17	
xxx	xxx	xxx	12,000	1,286	593	1,626	8,495	8,447	8,236	963	6,910	(1)	(1)	18	
41,218	6,945	6,534	116,063	12,901	5,101	12,020	86,041	81,074	79,290	10,451	66,205	34,463	323	19	
40,366	5,309	6,011	453	12,901 {	...	...	86,041 {	3,899	3,899	10,451	66,205 {	...	...	20	
852	1,636	523	115,610		5,101	12,020	77,175	75,391	75,391		(D)	(D)	34,463	323	21
{ 754 }	1,636	523	114,002		5,101	(D)	84,522	75,361	75,361		(D)	(D)	...	...	22
			1,608		...	(D)	(D)	56	30		...	...	34,463	323	23
33,962	4,836	3,578	61,808	4,786	3,196	4,129	49,697	17,894	17,305	2,298	14,292	22,027	264	24	
7,054	112	764	9,913	760	601	533	8,019	2,471	2,385	358	1,954	3,114	55	25	
5,022	74	685	8,798	642	547	419	7,190	1,651	1,588	219	1,320	2,737	44	26	
5,127	64	1,364	9,821	659	489	432	8,241	1,734	1,663	220	1,379	2,902	51	27	
4,948	63	1,161	9,910	667	537	410	8,296	1,703	1,632	219	1,349	2,785	49	28	
4,886	64	1,148	9,519	678	521	419	7,901	1,666	1,602	222	1,337	2,797	47	29	
4,351	79	368	9,260	677	528	426	7,629	1,667	1,601	221	1,337	2,600	48	30	
4,742	74	370	8,961	656	521	404	7,380	1,601	1,537	222	1,271	2,644	52	31	
4,708	77	388	8,714	621	534	452	7,107	1,678	1,614	221	1,349	2,729	31	32	
5,271	74	387	8,735	627	530	447	7,131	1,591	1,526	219	1,265	2,576	30	33	
5,394	74	408	8,157	642	567	455	6,493	1,642	1,575	220	1,310	2,751	48	34	
4,975	76	620	8,388	626	574	432	6,756	1,666	1,600	213	1,338	2,813	48	35	
5,151	76	816	8,502	594	588	446	6,874	1,694	1,627	213	1,347	2,824	47	36	
5,123	77	815	8,576	599	581	412	6,984	1,711	1,644	215	1,362	2,745	30	37	
5,135	77	827	8,519	602	578	387	6,952	1,721	1,654	214	1,374	2,743	31	38	
483	10	73	1,046	110	26	84	826	732	728	130	583	317	3	39	
1,549	28	6	69	8	28	30	3	88	69	9	51	60	8	40	
1,052	24	2	50	5	18	27	...	81	68	8	51	42	3	41	
7,787	110	1,023	13,126	1,180	870	597	10,479	2,832	2,728	352	2,272	4,395	63	42	
7,787	110	1,023	10,445	692	692	234	8,827	...	...	...	...	44,395	463	43	
6,974	...	702	7,676	...	605	...	7,071	...	...	...	...	...	446	44	
...	110	100	771	504	...	234	33	...	...	...	...	44,233	...	45	
813	...	221	1,998	188	87	...	1,723	...	...	...	...	4162	417	46	
...	...	...	2,681	488	178	363	1,652	2,832	2,728	352	2,272	...	...	47	
187	...	28	93	...	80	...	13	1	1	...	1	11,550	60	48	
29,964	2,535	6,300	94,856	11,550	4,319	10,061	68,926	74,279	72,852	9,801	60,818	26,223	266	49	
18,992	279	2,725	34,589	2,906	2,200	1,503	27,980	6,664	6,472	873	5,348	11,780	196	50	
2,011	73	532	4,864	488	122	356	3,898	4,082	4,068	742	3,274	1,937	10	51	
5,582	412	550	4,561	1,044	678	804	2,035	2,081	2,060	140	1,915	9,101	52	52	
...	...	...	29,302	3,956	1,123	6,099	18,124	56,046	54,938	7,788	45,325	...	...	53	
146	...	200	426	7	...	...	419	3,422	3,422	103	3,319	...	...	54	
917	157	285	358	40	33	126	159	204	176	12	158	1,708	8	55	
1,259	30	272	3,077	400	148	521	2,008	1,491	1,468	94	1,334	511	...	56	
1,057	1,584	1,736	17,679	2,709	15	652	14,303	289	24	49	145	1,186	...	57	



Table 3.—Detailed Statistics for Industries, Selected Counties,

	Item	111— Antha- cite mining indus- tries, total	1111—Anthracite industry selected types of operation for producing establishments								
			All counties (Penn- sylvania)	Selected counties						Producing mining operations only	
				Carbon	Columbia	Lacka- wanna	Luzerne	Northum- berland	Schuyl- kill	Total	Strip pit
1	Purchased machinery installed.....\$1,000..	10,033	6,317	30	551	496	2,481	456	2,143	1,834	797
2	Capital expenditures, total.....do....	16,591	12,804	80	1,037	965	2,889	868	6,663	6,711	3,808
3	Development and exploration of min- eral property.....do....	3,818	3,818	...	2	123	167	67	3,457	3,739	3,191
4	Preparation plant and other construc- tion.....do....	1,879	1,811	74	219	187	477	79	731	174	42
5	New machinery and equipment.....do....	9,683	6,333	1	807	534	2,044	601	2,111	2,356	328
6	Used plant and equipment.....do....	1,211	842	5	9	121	201	121	364	442	247
7	Energy used.....million kwh equivalent..	3,881	3,347	25	52	791	1,613	176	647	975	140
8	Anthracite produced and used at same establishment.....1,000 short tons..	212	212	1	( <sup>5</sup> )	14	165	3	29	2	...
	Fuels purchased:										
9	Coal.....do....	101	97	...	...	76	18	...	2	57	...
10	Fuel oil.....1,000 barrels..	286	82	2	5	2	11	7	42	60	43
11	Other fuels and undistributed <sup>6</sup> .....\$1,000..	2,010	1,497	12	61	138	188	406	647	1,130	121
12	Electric energy purchased.....million kwh..	564	534	12	20	83	185	40	182	147	37
13	Electric energy generated and used.....do....	68	68	...	...	(D)	(D)	( <sup>5</sup> )	1	(D)	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Coal mined by the Anthracite Services Industries is included in the production shown for the Anthracite Industry.

<sup>2</sup>Figures for Carbon County are combined with those for Columbia County.

<sup>3</sup>Figures for Dredge operations are included with figures for Culm bank operations.

<sup>4</sup>Service establishments were requested to report man-hours by kind of work performed, rather than by department. The man-hours so reported have been allocated to the mine department where the service was performed. Thus "Underground" man-hours represent such services as drilling, rock work, shaft sinking, and mine tunneling; "Strip-pits, culm banks, and dredges" man-hours represents stripping overburden, strip-pit mining, and loading culm bank material; and "Surface" man-hours represent excavating, shop work, hauling from mine to breaker, and other miscellaneous services.

<sup>5</sup>Less than one-half of the unit of measure specified.

<sup>6</sup>Undistributed fuels costs for all Anthracite Mining Industries amounted to \$379 thousand; for the Anthracite Industry, \$334 thousand; for the Anthracite Stripping Services Industry, \$41 thousand; and for the Anthracite Mining Services, NEC, Industry, \$4 thousand.

ANTHRACITE MINING

11B-11

and Selected Types of Operation: 1958-Continued

1111—Anthracite industry selected types of operation for producing establishments—Continued												1112—An- thracite stripping services industry	1113—An- thracite mining services, nec industry	
Producing mining operations only—Continued			Producing mining operations with preparation plants					Producing preparation plants only						
Under- ground	Culm bank	Combi- nation	Total	Strip pit	Under- ground	Culm bank	Combi- nation	All plants	Mechanical cleaning					
									All plants	Coarse sizes (rice and larger) only	Coarse and fine sizes			
822	57	158	1,948	60	87	885	916	2,421	2,375	57	2,286	3,615	101	1
2,527	131	245	3,096	101	179	1,196	1,620	2,774	2,702	90	2,569	3,685	102	2
483	34	31	71	...	34	...	37	4	4	...	4	...	...	3
113	11	8	1,247	25	64	316	842	367	349	30	313	68	...	4
1,777	51	200	1,539	76	59	845	559	2,251	2,199	54	2,109	3,349	1	5
154	35	6	239	...	22	35	182	152	150	6	143	268	101	6
344	46	445	1,933	268	21	129	1,515	397	389	32	353	526	8	7
2	...	...	178	30	( <sup>5</sup> )	1	147	32	32	3	29	...	...	8
3	( <sup>5</sup> )	54	38	...	...	7	31	...	...	...	...	3	1	9
7	9	1	11	3	1	6	1	4	3	...	3	204	...	10
840	102	67	177	21	29	90	37	183	159	12	141	508	5	11
83	3	24	261	35	9	38	179	104	103	7	95	30	...	12
2	...	(D)	(D)	111	( <sup>5</sup> )	...	(D)	( <sup>5</sup> )	( <sup>5</sup> )	...	( <sup>5</sup> )	...	...	13



Table 4.—Selected Statistics for Establishments Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—								
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees
1111	ANTHRACITE:										
	Number of establishments.....	1,163	816	139	91	59	19	25	8	2	4
	All employees:										
	Number.....	119,712	731	919	1,191	1,821	1,335	3,704	4,016	(D)	5,389
	Payroll.....\$1,000..	179,473	2,295	3,006	4,395	7,633	5,700	15,536	16,251	(D)	21,142
	Production and development workers:										
	Number.....	17,266	675	820	1,013	1,622	1,165	3,320	3,687	(D)	4,964
	Man-hours.....1,000..	26,409	992	1,262	1,649	2,772	1,974	5,058	5,612	(D)	7,090
	Wages.....\$1,000..	67,449	2,074	2,666	3,699	6,630	4,727	13,798	14,651	(D)	19,204
	Value added in mining.....do....	142,198	17,692	7,260	7,824	12,329	10,494	25,896	28,080	(D)	32,623
	Value of shipments and receipts.....do....	290,342	39,856	13,915	15,707	27,325	26,986	58,144	60,461	(D)	47,948
	Capital expenditures.....do....	12,804	1,288	1,010	1,431	1,334	2,015	1,914	2,908	(D)	904
	Number of producing establishments, by type of operation, total.....	1,154	807	139	91	59	19	25	8	2	4
	Mining operations only:										
	Strip pit.....	77	53	10	6	5	1	1	1	...	...
	Underground.....	829	648	89	46	25	7	12	1	1	...
	Culm bank.....	52	44	4	4	...	...	...	...	...	...
	Combination.....	8	1	...	2	1	2	1	1	...	...
	Mining operations with preparation plants:										
	Strip pit.....	11	3	...	...	5	...	2	1	...	...
	Underground.....	17	6	3	2	3	1	2	...	...	...
	Culm bank.....	28	8	6	6	6	1	1	...	...	...
	Combination.....	16	...	...	1	1	2	4	3	1	4
	Preparation plants only:										
	Mechanical cleaning:										
	Coarse sizes only.....	9	3	3	1	1	...	1	...	...	...
	Coarse and fine sizes.....	63	16	14	16	11	4	1	1	...	...
	Fine sizes only.....	9	4	4	...	1	...	...	...	...	...
	Mechanical crushing, screening, and sizing only.....	16	11	2	3	...	...	...	...	...	...
	Dredges.....	19	10	4	4	...	1	...	...	...	...
1112	ANTHRACITE STRIPPING SERVICES:										
	Number of establishments.....	79	14	15	8	27	7	6	2	...	...
	All employees:										
	Number.....	3,054	37	98	123	907	472	1,417	(D)	...	...
	Payroll.....\$1,000..	13,717	160	442	521	4,060	2,242	6,292	(D)	...	...
	Production and development workers:										
	Number.....	2,737	36	82	117	820	440	1,242	(D)	...	...
	Man-hours.....1,000..	4,395	67	145	172	1,309	681	2,021	(D)	...	...
	Wages.....\$1,000..	11,780	150	396	495	3,541	1,964	5,234	(D)	...	...
	Value added in mining.....do....	22,027	426	1,144	1,067	6,116	3,451	9,823	(D)	...	...
	Value of shipments and receipts.....do....	34,463	547	1,511	1,458	9,056	5,981	15,910	(D)	...	...
	Capital expenditures.....do....	3,685	58	130	65	787	446	2,199	(D)	...	...
1113	ANTHRACITE MINING SERVICES, NEC:										
	Number of establishments.....	6	3	...	3	...	...	...	...	...	...
	All employees:										
	Number.....	47	4	...	43	...	...	...	...	...	...
	Payroll.....\$1,000..	206	10	...	196	...	...	...	...	...	...
	Production and development workers:										
	Number.....	44	3	...	41	...	...	...	...	...	...
	Man-hours.....1,000..	63	3	...	60	...	...	...	...	...	...
	Wages.....\$1,000..	196	8	...	188	...	...	...	...	...	...
	Value added in mining.....do....	264	17	...	247	...	...	...	...	...	...
	Value of shipments and receipts.....do....	323	18	...	305	...	...	...	...	...	...
	Capital expenditures.....do....	102	1	...	101	...	...	...	...	...	...

<sup>1</sup>Includes figures for separately reported central offices and related facilities. These were not distributed by size of establishment.

Table 5.—Industry-Product Analysis, Summary of Industry Shipments and Receipts and  
Net Shipments of Primary Products for the United States: 1958 and 1954

Ind. code	Industry and year	Value of shipments and receipts of establishments classified in the industry					Value of net shipments of primary products of the industry shipped by establishments in all industries or receipts for primary services by all industries		
		Total (\$1,000)	Primary products or services (\$1,000)	Secondary products (\$1,000)	Receipts for services (\$1,000)	Products purchased and resold without further processing (\$1,000)	Total (produced or received in all industries) (\$1,000)	Produced or received in this industry (\$1,000)	Produced or received in other industries (\$1,000)
1111	Anthracite.....1958..	290,342	282,593	(D)	(D)	<sup>1</sup> 4,960	196,425	196,425	...
	1954..	365,536	363,299	2,022	215	(NA)	246,276	246,276	...
1112	Anthracite stripping services...1958..	34,463	(D)	...	(D)	...	<sup>2</sup> 33,305	(D)	(D)
	1954..	42,048	(D)	...	(D)	...	(D)	(D)	(D)
1113	Anthracite mining services, nec.1958..	323	(D)	...	(D)	...	<sup>2</sup> 926	(D)	(D)
	1954..	847	847	...	...	...	(D)	847	...

NA Not available.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Represents 732 thousand short tons of coal purchased and resold without further processing.

<sup>2</sup>Represents services performed in the two anthracite services industries only.



Table 6A.—Primary Products and Services of the Anthracite Mining Industries Produced or Performed in All Industries, by County: 1958 and 1954

(For net production of anthracite by county and type of operation, see table 3)

County	Net anthracite shipments <sup>1</sup>				Raw anthracite shipped (including interplant transfers) in 1958			
	1958		1954		For use without preparation		For preparation at other establishments	
	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)
United States (Pennsylvania), total.....	22,341	196,425	28,695	246,276	1,158	2,966	19,440	<sup>2</sup> 86,168
Carbon.....	446	4,275	1,251	9,845	50	127	1,550	6,928
Columbia.....	89		381	3,740				
Dauphin.....	265	1,805	148	905	20	83	57	205
Lackawanna.....	2,332	24,257	3,348	33,040	54	182	2,503	11,229
Luzerne.....	7,011	70,396	10,235	97,932	149	441	4,323	22,061
Northumberland.....	2,556	18,410	3,892	30,290	324	942	3,296	11,757
Schuylkill.....	8,962	75,072	8,795	68,987	561	1,191	7,644	33,636
Other counties <sup>6</sup> .....	680	2,210	645	1,536	...	...	67	352
	Raw anthracite for preparation in 1958				Prepared anthracite shipped (including interplant transfers) in 1958			
	Received from other establishments		Mined and prepared at same establishment (1,000 short tons)	Mechanically cleaned (breaker, washery, and dredge product)		Mechanically crushed, screened, or sized only		
	Short tons (1,000)	Cost (\$1,000)		Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	
United States (Pennsylvania), total.....	20,151	85,375	14,238	20,804	190,389	379	3,070	
Carbon.....	<sup>3</sup> 527	<sup>3</sup> 2,203	<sup>4</sup> 623	485	4,148	{	...	...
Columbia.....	...	...	151					
Dauphin.....	( <sup>3</sup> )	( <sup>3</sup> )	<sup>4</sup> 341	<sup>5</sup> 245	<sup>5</sup> 1,722	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Lackawanna.....	2,569	13,911	751	<sup>5</sup> 2,278	<sup>5</sup> 24,075	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Luzerne.....	5,164	27,569	4,891	<sup>5</sup> 6,862	<sup>5</sup> 69,955	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Northumberland.....	3,631	10,462	547	2,151	17,051	81	417	
Schuylkill.....	8,253	31,217	6,305	8,138	71,513	263	2,368	
Other counties <sup>6</sup> .....	7	13	1,156	678	2,202	2	8	
	1958				1954			
Type of service	Raw anthracite mined and culm-bank material loaded (1,000 short tons)		Receipts for services (\$1,000)		Raw anthracite mined and culm-bank material loaded (1,000 short tons)		Receipts for services (\$1,000)	
Anthracite stripping services, total <sup>7</sup> .....	11,432		33,305		16,456		<sup>8</sup> 42,048	
Stripping overburden and strip mining anthracite not for own account.....	8,682		30,968		11,328		<sup>8</sup> 38,442	
Recovering culm bank coal not for own account.....	2,750		2,337		5,128		3,606	
Anthracite services other than stripping, total <sup>7</sup> .....	xxx		926		xxx		<sup>9</sup> 847	
Sinking mine shafts and driving mine tunnels.....	xxx		217		xxx		<sup>9</sup> 574	
Prospect, test, and other drilling (including blasting).....	xxx		55		xxx		<sup>9</sup> 273	
Exploration work, including geophysical and other exploratory surveying, and other anthracite services, nec.....	xxx		654		xxx			

<sup>1</sup>Represents raw coal for use without preparation plus prepared coal.

<sup>2</sup>Some respondents may have reported value of clean coal equivalent rather than value of raw coal shipped, accounting, in part, for the excess of value of coal as shipped from the mines over the cost of coal as received at the preparation plants.

<sup>3</sup>Figures for Dauphin county are included with those for Carbon county.

<sup>4</sup>Figures for coal received for preparation are included with those for coal mined and prepared at the same establishment.

<sup>5</sup>Figures for mechanically crushed, screened, or sized only are included with those for Breaker and washery product.

<sup>6</sup>Represents Berks, Lancaster, Lebanon, Northampton, Snyder, Sullivan, Susquehanna, and Wayne counties.

<sup>7</sup>Represents services reported by the Anthracite Services Industries only.

<sup>8</sup>Includes receipts for other services by the Anthracite Stripping Services Industry, amounting to less than one percent of the total.

<sup>9</sup>Represents receipts for such services in the Anthracite Mining Services, NEC, Industry only. Receipts for such services in the Anthracite Stripping Services Industry are included with receipts for "for Stripping overburden and strip mining anthracite not for own account".

ANTHRACITE MINING

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Table 6B.—Shipments of Primary Products of the Anthracite Industry Distributed by Value Per Ton: 1958

Product and item	Total	Shipments by average value per short ton f.o.b. mine or plant of <sup>1</sup> --									
		Less than \$2.95	\$2.95-\$3.79	\$3.80-\$4.84	\$4.85-\$5.44	\$5.45-\$6.14	\$6.15-\$7.84	\$7.85-\$8.84	\$8.85-\$9.99	\$10.00-\$11.09	\$11.10 and over
Raw anthracite for use without preparation:											
Quantity shipped...1,000 short tons..	1,158	844	131	88	25	18	16	36	...	...	...
Percent of total.....	100.0	72.9	11.3	7.6	2.2	1.5	1.4	3.1	...	...	...
Value of shipments.....\$1,000..	2,966	1,498	432	403	128	102	102	301	...	...	...
Percent of total.....	100.0	50.5	14.6	13.6	4.3	3.4	3.4	10.2	...	...	...
Raw anthracite for preparation at other establishments:											
Quantity shipped...1,000 short tons..	19,440	3,346	1,361	6,300	4,805	2,583	593	15	437	...	...
Percent of total.....	100.0	17.2	7.0	32.4	24.7	13.3	3.1	0.1	2.2	...	...
Value of shipments.....\$1,000..	86,168	6,256	4,543	27,142	25,322	14,924	3,939	132	3,910	...	...
Percent of total.....	100.0	7.2	5.3	31.5	29.4	17.3	4.6	0.2	4.5	...	...
Prepared anthracite mechanically cleaned (breaker, washery, and dredge product):											
Quantity shipped...1,000 short tons..	20,804	558	220	527	336	516	1,710	1,893	6,122	7,964	958
Percent of total.....	100.0	2.7	1.1	2.5	1.6	2.5	8.2	9.1	29.4	38.3	4.6
Value of shipments.....\$1,000..	190,389	1,503	714	2,287	1,709	2,978	12,047	15,960	58,762	83,272	11,157
Percent of total.....	100.0	0.8	0.4	1.2	0.9	1.6	6.3	8.4	30.9	43.7	5.8
Prepared anthracite mechanically crushed, screened, or sized only:											
Quantity shipped...1,000 short tons..	379	...	30	25	4	1	86	172	35	10	16
Percent of total.....	100.0	...	7.9	6.6	1.1	0.3	22.7	45.4	9.2	2.6	4.2
Value of shipments.....\$1,000..	3,070	...	107	123	25	6	651	1,476	341	109	232
Percent of total.....	100.0	...	3.5	4.0	0.8	0.2	21.2	48.1	11.1	3.6	7.5

<sup>1</sup>The "average values" are based on the entire shipments of the specified product by each establishment. Thus they are representative of varied average prices among establishments but not of variations within an establishment.



Table 7.-Supplies Used in the Anthracite Mining Industries, 1958 and 1954, and by Type of Operation, 1958

(For the quantity and cost of coal received for preparation see table 6A. For the quantity and total cost of purchased fuels and electricity used, and the total quantity of coal produced and used for fuel, see table 3)

Ind. code	Industry, year, and type of operation	Total cost of supplies used (\$1,000)	Explosives <sup>1</sup>		Steel-mill shapes and forms <sup>2</sup>		Cost of round or hewn woods products and stumpage <sup>3</sup> (\$1,000)	Cost of other supplies (\$1,000)	Cost of supplies un- distributed by type (\$1,000)
			Pounds (1,000)	Cost (\$1,000)	Short tons	Cost (\$1,000)			
1111	ANTHRACITE:								
	All establishments:								
	1958.....	16,403	11,880	2,095	11,171	1,902	1,138	7,785	3,483
	1954.....	20,224	16,987	2,815	14,769	1,967	1,741	13,701	...
	<u>By Type of Operation: 1958</u>								
	Producing establishments:								
	Mining operations only:								
	Strip pit.....	2,984	4,698	412	470	112	20	1,940	500
	Underground.....	5,582	2,441	544	1,931	397	397	1,771	2,473
	Culm bank.....	412	...	...	310	15	4	197	196
	Combination.....	550	609	145	500	75	65	265	...
	Mining operations with preparation plants:								
	Strip pit.....	1,044	1,397	308	680	146	117	467	6
	Underground.....	678	299	107	156	30	65	458	18
	Culm bank.....	804	...	...	498	93	1	602	108
	Combination.....	2,035	2,436	579	5,867	796	433	227	...
	Preparation plants only:								
	Mechanical cleaning:								
	Coarse sizes only.....	140	...	...	42	8	...	132	...
	Coarse and fine sizes.....	1,915	...	...	605	204	25	1,605	81
	Fine sizes only.....	5	...	...	10	2	2	1	...
	Mechanical crushing, screening, and sizing only.....	21	...	...	6	2	1	18	...
	Dredges.....	224	...	...	96	22	8	93	101
	Nonproducing establishments.....	9	...	...	...	...	...	9	...
1112	ANTHRACITE STRIPPING SERVICES:								
	All establishments:								
	1958.....	9,101	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	9,101
	1954.....	8,651	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	8,651
1113	ANTHRACITE MINING SERVICES, NEC:								
	All establishments:								
	1958.....	52	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	52
	1954.....	152	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	152

NA Not available.

<sup>1</sup>Excludes blasting accessories and breaking agents.<sup>2</sup>Represents such items as rails, wheels, track accessories, roof bolts, plates, pipe, tubing, piling, drill steel bars, other bars, sheets, strip, wire, wire products, and structural shapes.<sup>3</sup>Represents such items as logs, bolts, hewn cross ties, and hewn or round mine timbers and ties. Includes stumpage charges for woods products produced at the establishment but excludes land values and logging costs.

Table 8.—General Statistics for Establishments Classified by Output Per Man-Hour, by Selected Types of Operation, in the United States: 1958

Ind. code	Industry, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1111	ANTHRACITE:									
	All establishments, total.....	1,163	19,712	79,473	17,266	26,409	67,449	142,198	290,342	12,804
	Producing establishments, total.....	1,154	19,703	79,447	17,260	26,402	67,435	142,348	290,342	12,782
	Mining operations only:									
	Strip pit, total.....	77	954	3,901	870	1,199	3,510	18,320	36,110	3,808
	Less than 1.00.....	5	26	126	25	52	121	119	152	4
	1.00-1.49.....	9	143	741	128	249	660	1,192	1,657	122
	1.50-1.99.....	6	140	604	135	238	585	925	1,913	221
	2.00 and over.....	8	76	305	70	107	284	609	857	202
	Undistributed <sup>2</sup> .....	49	569	2,125	512	553	1,860	15,475	31,531	3,259
	Underground, total.....	829	5,505	21,003	5,022	7,787	18,992	33,962	41,218	2,527
	Less than 0.40.....	19	72	162	60	82	149	143	126	75
	0.40-0.59.....	26	1,023	3,699	963	1,488	3,386	4,754	5,617	46
	0.60-0.79.....	34	663	2,609	633	1,030	2,487	3,676	4,346	202
	0.80-0.99.....	39	633	2,382	600	888	2,245	3,512	4,012	284
	1.00-1.19.....	36	866	3,773	795	1,281	3,399	5,109	5,745	259
	1.20-1.39.....	25	750	2,954	657	927	2,480	4,376	5,385	345
	1.40-1.59.....	9	411	1,875	338	595	1,652	3,362	3,626	125
	1.60-1.79.....	10	68	240	60	106	222	513	669	45
	1.80-1.99.....	8	62	195	54	74	170	505	670	48
	2.00-2.39.....	10	77	304	68	93	252	603	780	73
	2.40-2.99.....	11	57	196	52	78	184	492	927	68
	3.00 and over.....	10	24	53	23	25	50	287	365	18
	Undistributed <sup>2</sup> .....	592	799	2,561	719	1,120	2,316	6,630	8,950	939
	Mining operations with preparation plants:									
	Strip pit, total.....	11	752	3,394	642	1,180	2,906	4,786	12,901	101
	Less than 2.40.....	4	537	2,500	476	928	2,247	3,347	5,874	35
	Undistributed <sup>2</sup> .....	7	215	894	166	252	659	1,439	7,027	66
	Underground, total.....	17	573	2,322	547	870	2,200	3,196	5,101	179
	Less than 0.80.....	5	280	1,088	271	446	1,049	1,497	2,070	78
	0.80 and over.....	6	126	501	122	213	486	907	1,909	57
	Undistributed <sup>2</sup> .....	6	167	733	154	211	665	792	1,122	44
	Preparation plants only, total.....	97	2,383	10,746	1,651	2,832	6,664	17,894	81,074	2,774
	Less than 1.50.....	15	178	649	146	236	492	892	2,920	58
	1.50-1.99.....	9	197	889	171	350	766	1,282	6,087	1,759
	2.00-2.99.....	20	752	3,217	636	1,100	2,691	5,545	25,023	456
	3.00-3.99.....	7	458	1,931	438	675	1,769	6,923	27,862	237
	4.00 and over.....	13	221	869	169	255	623	2,345	15,477	98
	Undistributed <sup>2</sup> .....	33	577	3,191	91	216	323	907	3,705	166
	Combination mines with and without preparation plants, total.....	24	8,774	35,135	7,875	11,502	30,705	53,275	92,575	1,865
	Less than 1.50.....	11	4,392	16,120	3,951	5,531	14,165	19,381	32,104	625
	Undistributed <sup>2</sup> .....	13	4,382	19,015	3,924	5,971	16,540	33,894	60,471	1,240
	Reclaiming operations with and without preparation plants:									
	Culm banks, total.....	80	587	2,211	493	707	1,782	8,965	18,965	1,327
	Less than 1.60.....	4	58	179	45	73	152	440	273	508
	1.60 and over.....	10	299	1,105	256	351	902	2,672	8,936	62
	Undistributed <sup>2</sup> .....	66	230	927	192	283	728	5,853	9,756	757
	Dredges, total.....	19	175	735	160	325	676	1,950	2,398	201
	Less than 1.60.....	5	48	177	40	75	155	135	170	32
	1.60 and over.....	6	108	491	101	216	457	1,557	1,792	106
	Undistributed <sup>2</sup> .....	8	19	67	19	34	64	258	436	63

<sup>1</sup>Represents tons of anthracite shipped per man-hour worked by production and development workers.<sup>2</sup>Represents establishments reporting no anthracite shipments, or no production or development worker man-hours, or cost of contract work amounting to 30 percent or more of production and development worker wages, or number of working proprietors amounting to 30 percent or more of number of production and development workers, or man-hours spent on development and exploration work amounting to 30 percent or more of total man-hours worked by production and development workers. Also includes figures for the number and payroll of employees at separately reported central offices and related facilities.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining: 1958

Ind. code	Industry and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1111	ANTHRACITE:									
	United States (Pennsylvania), total.....	1,163	19,712	79,473	17,266	26,409	67,449	142,198	290,342	12,804
	Less than 0.10.....	21	34	101	31	36	71	2,282	3,513	178
	0.10-0.19.....	25	173	679	138	220	521	4,473	10,155	235
	0.20-0.29.....	54	1,234	4,616	1,145	1,662	4,235	18,674	39,260	4,197
	0.30-0.39.....	69	653	2,578	515	878	1,963	6,826	17,101	577
	0.40-0.49.....	78	919	3,494	786	1,335	3,070	7,335	17,372	999
	0.50-0.59.....	91	2,982	12,806	2,666	4,284	11,139	26,214	47,514	1,439
	0.60-0.69.....	77	4,447	17,441	4,100	6,209	16,160	26,311	44,018	986
	0.70-0.79.....	60	2,758	11,222	2,536	3,864	10,058	15,736	31,407	652
	0.80-0.89.....	50	1,749	6,978	1,566	2,595	6,223	8,229	14,966	2,348
	0.90-0.99.....	20	1,921	7,083	1,820	2,316	6,383	7,519	13,078	182
	1.00 and over.....	120	2,134	8,489	1,878	2,864	7,250	6,731	19,654	541
	No employees.....	473	...	...	...	...	...	12,190	31,308	446
	Undistributed <sup>2</sup> .....	25	708	3,986	85	146	376	( <sup>3</sup> )	996	24
1112	ANTHRACITE STRIPPING SERVICES AND									
1113	ANTHRACITE MINING SERVICES, NEC:									
	United States (Pennsylvania), total.....	85	3,101	13,923	2,781	4,458	11,976	22,291	34,786	3,787
	0.10-0.29.....	6	53	282	49	89	257	1,138	1,452	86
	0.30-0.39.....	12	248	1,141	222	352	975	3,377	4,565	50
	0.40-0.49.....	8	231	832	215	286	733	1,829	2,221	1,450
	0.50-0.59.....	17	776	3,917	700	1,218	3,339	6,844	9,697	1,205
	0.60-0.69.....	8	386	1,428	322	460	1,139	2,234	3,066	242
	0.70-0.79.....	9	378	1,589	347	624	1,444	2,134	3,994	252
	0.80-0.89.....	6	517	2,466	468	752	2,127	2,881	5,016	163
	0.90-0.99.....	6	260	1,197	235	375	1,083	1,239	2,948	261
	1.00 and over.....	11	252	1,071	223	302	879	615	1,827	78
	No employees and undistributed <sup>2</sup> .....	2								

<sup>1</sup>Note that in computing these ratios contract or subcontract employment serving the establishment is excluded. The cost of contract or subcontract work expressed as a percent of payroll for 1958 was 49 percent for the Anthracite Industry and 9 percent for the Anthracite Services Industries.

<sup>2</sup>Represents establishments with zero or negative value added and, for number of employees and payroll, includes figures for separately reported central offices and related facilities.

<sup>3</sup>Not shown since cost of supplies, fuels, purchased electricity, contract work, and purchased machinery exceeds value of shipments and receipts plus capital expenditures.

Table 10.—Value Added in Mining Per Employee by Size of Establishment for the United States: 1958

Ind. code	Industry and value added per employee class <sup>1</sup>	Number of—		Number of establishments with average employment of—								
		Estab- lish- ments	Emplay- ees	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1111	ANTHRACITE, TOTAL.....	1,163	19,712	816	139	91	59	19	25	8	2	
	Less than \$3,000.....	113	1,122	70	20	17	3	1	1	1	...	...
	\$3,000-\$3,999.....	73	2,998	44	12	7	6	1	...	1	1	1
	\$4,000-\$4,999.....	94	3,251	38	25	12	6	5	6	1	...	1
	\$5,000-\$5,999.....	83	2,883	27	20	12	10	6	7	...	1	...
	\$6,000-\$6,999.....	66	2,926	24	17	8	10	2	2	2	...	1
	\$7,000-\$7,999.....	47	1,161	19	6	8	10	...	4	...	...	...
	\$8,000-\$8,999.....	36	2,125	21	4	2	6	...	1	1	...	1
	\$9,000-\$9,999.....	38	537	18	12	6	...	...	2	...	...	...
	\$10,000-\$12,499.....	47	429	20	14	8	4	1	...	...	...	...
	\$12,500-\$14,999.....	22	314	14	1	5	...	1	1	...	...	...
	\$15,000-\$17,499.....	15	1,013	6	1	4	...	2	...	2	...	...
	\$17,500-\$19,999.....	12	26	11	1	...	...	...	...	...	...	...
	\$20,000 and over.....	32	259	22	5	1	3	...	1	...	...	...
	Undistributed <sup>2</sup> .....	485	668	482	1	1	1	...	...	...	...	...
1112	ANTHRACITE STRIPPING SERVICES, TOTAL.....	79	3,054	14	15	8	27	7	6	2	...	...
	Less than \$3,000.....	8	183	...	3	1	3	1	...	...	...	...
	\$3,000-\$3,999.....	5	105	1	...	1	3	...	...	...	...	...
	\$4,000-\$4,999.....	10	358	1	2	...	5	1	1	...	...	...
	\$5,000-\$5,999.....	8	779	2	...	2	1	...	1	2	...	...
	\$6,000-\$6,999.....	5	245	...	2	...	1	1	1	...	...	...
	\$7,000-\$7,999.....	7	290	...	1	1	4	...	1	...	...	...
	\$8,000-\$8,999.....	6	256	...	1	1	2	2	...	...	...	...
	\$9,000-\$9,999.....	12	479	4	...	...	5	2	1	...	...	...
	\$10,000-\$12,499.....	3	77	1	...	...	2	...	...	...	...	...
	\$12,500-\$14,999.....	5	221	1	1	1	1	...	1	...	...	...
	\$15,000-\$17,499.....	3	11	2	1	...	...	...	...	...	...	...
	\$17,500-\$19,999.....	1	} 50 {	...	1	...	...	...	...	...	...	...
	\$20,000 and over.....	4		1	2	1	...	...	...	...	...	...
	Undistributed <sup>2</sup> .....	2		1	1	...	...	...	...	...	...	...
1113	ANTHRACITE MINING SERVICES, NEC, TOTAL.....	6	47	3	...	3	...	...	...	...	...	...
	Less than \$3,000.....	1	} 47 {	1	...	...	...	...	...	...	...	...
	\$4,000-\$4,999.....	1		1	...	...	...	...	...	...	...	...
	\$5,000-\$5,999.....	2		...	...	2	...	...	...	...	...	...
	\$7,000-\$7,999.....	1		...	...	1	...	...	...	...	...	...
	\$8,000-\$8,999.....	1		1	...	...	...	...	...	...	...	...

<sup>1</sup>See table 9, footnote 1. <sup>2</sup>Represents establishments with no employees or with negative value added in mining and, for number of employees, figures for separately reported central offices and related facilities.

Table 11.—Hourly Earnings of Production and Development Workers for Establishments with 10 or more Employees for the United States (Pennsylvania): 1958

Industry code	Industry by hourly earnings classes	Number of—	
		Establishments	Employees
1111	ANTHRACITE, TOTAL.....	208	<sup>1</sup> 17,456
	\$1.00-\$1.49.....	8	147
	\$1.50-\$1.99.....	26	599
	\$2.00-\$2.49.....	75	4,928
	\$2.50-\$2.99.....	76	10,379
	\$3.00-\$3.49.....	15	835
	\$3.50 and over.....	8	568
1112	ANTHRACITE STRIPPING SERVICES, TOTAL.....	50	<sup>1</sup> 12,919
	\$2.00-\$2.49.....	15	843
	\$2.50-\$2.99.....	21	<sup>1</sup> 1,489
	\$3.00-\$3.49.....	9	390
	\$3.50 and over.....	5	<sup>1</sup> 197
1113	ANTHRACITE MINING SERVICES NEC, TOTAL.....	3	43
	\$2.50-\$2.99.....	1	43
	\$3.00-\$3.49.....	1	
	\$3.50 and over.....	1	

<sup>1</sup>Figures for the Anthracite Industry exclude, but figures for the Anthracite Stripping Services Industry include, data for separately reported central offices and related facilities.

Table 12.—Distribution of Operating Companies by Employment Size and by Number of Establishments for the United States: 1958

Ind. code	Industry by establishment count	Number of—			Number of establishments with average employment of—								
		Operating companies	Establishments	Employees	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1111	ANTHRACITE, TOTAL.....	1,075	1,163	19,712	816	139	91	59	19	25	8	2	4
	Multiunit companies, total.....	26	114	11,986	51	5	11	12	9	13	8	2	3
	1 establishment <sup>1</sup> .....	13	13	1,026	...	1	1	5	3	3	...	...	...
	2 establishments.....	4	8	1,710	1	...	2	2	...	2	...	...	1
	3 or 4 establishments.....	4	13	5,097	1	1	4	1	...	2	2	2	...
	5 or 6 establishments.....	1	6		2	...	...	...	1	1	1	...	1
	7-9 establishments.....	1	9		...	2	1	2	2	1	1	...	...
	10-14 establishments.....	1	12	4,153	6	...	1	2	1	1	1	...	...
	15-19 establishments.....	1	19		13	...	2	...	1	1	1	...	1
	20 or more establishments.....	1	34		28	1	...	...	1	2	2	...	...
	Single unit companies.....	1,049	1,049	7,726	765	134	80	47	10	12	...	...	1
1112	ANTHRACITE STRIPPING SERVICES, TOTAL.....	78	79	3,054	14	15	8	27	7	6	2	...	...
	Multiunit companies, total.....	11	12	1,068	1	1	...	3	3	3	1	...	...
	1 establishment <sup>1</sup> .....	10	10	1,068	1	1	...	3	2	2	1	...	...
	2 establishments.....	1	2		...	...	...	...	1	1	...	...	...
	Single unit companies.....	67	67		13	14	8	24	4	3	1	...	...
1113	ANTHRACITE MINING SERVICES, NEC (all single unit companies).	6	6	47	3	...	3	...	...	...	...	...	...

<sup>1</sup>Represents companies having at least one establishment classified in other industries.





# Bituminous Coal and Lignite Mining

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Major Industry Group 12, Bituminous Coal and Lignite Mining. This major group covers establishments primarily engaged in producing bituminous coal and lignite. The separate industries included in this group are as follows:

## S.I.C. Code and Title (1957 Edition)

- 1211—Bituminous Coal
- 1212—Lignite
- 1213—Bituminous Coal and Lignite Stripping and Auger Mining Services
- 1214—Bituminous Coal and Lignite Mining Services, Except Stripping, N.E.C.

**Industry 1211—Bituminous Coal.**—This industry represents establishments primarily engaged in producing bituminous coal or in developing bituminous coal mines. This industry includes underground mining, auger mining, strip mining, and coal cleaning, crushing, screening, and sizing plants whether or not operated in conjunction with the mines served.

**Industry 1212—Lignite.**—This industry represents establishments primarily engaged in producing lignite or in developing lignite mines.

**Industry 1213—Bituminous Coal and Lignite Stripping and Auger Mining Services.**—This industry represents establishments primarily engaged in overburden stripping and strip and auger mining of bituminous coal or lignite for others on a contract, fee, or other basis.

**Industry 1214—Bituminous Coal and Lignite Mining Services, Except Stripping, N.E.C.**—This industry represents establishments primarily engaged in performing bituminous coal and lignite mining services, except stripping and auger mining services, for others on a contract, fee, or other basis. Included are services such as drilling, shaft sinking, and mine tunnelling.

The production of coke is classified in Industry 3312, Blast Furnaces (including Coke Ovens), Steel Works, and Rolling Mills. The production of fuel briquets and packaged fuel is classified in Industry 2999, Products of Petroleum and Coal, N.E.C., and the production of manufactured gas from coal in Industry 4925, Mixed, Manufactured, or L.P. Gas Production and/or Distribution.

The combined value of shipments of the industries in Major Group 12 amounted to \$2,423 million in 1958. Of this total, the Bituminous Coal Industry had shipments of \$2,391 million, including \$309 million for raw coal sold or transferred to other establishments in the industry for preparation, and \$23 million for coal purchased and resold without further processing. The value of shipments of the Lignite Industry in 1958 was \$11 million. The remainder was accounted for by the Bituminous Coal and Lignite Stripping and Auger Mining Services Industry, with receipts of \$19 million, and the Bituminous Coal and Lignite Mining Services, except Stripping, N.E.C. Industry, with receipts of \$2 million.

Net shipments of bituminous coal and lignite in 1958 amounted to 421 million tons. An additional 0.45 million

tons of such coal were mined and used in the same establishment for power or heat.

**Net production, net shipments, and transfers for preparation.**—The figures for "net shipments" represent all prepared coal shipped plus raw coal shipped for use without preparation. The net shipments figures exclude coal used at the producing mine or preparation plant for power or heat and coal purchased and resold without further processing. They also exclude the raw coal sold or transferred to other establishments for preparation, thus eliminating the duplication in "total" shipments which results from inclusion of both the raw coal sold or transferred for preparation and the clean coal recovered therefrom. For individual States and counties, however, the net shipments figures include the prepared coal recovered from raw coal mined in other States or counties.

"Net production," on the other hand, represents the net tonnage of coal mined, excluding washery and other refuse, based on the location of the mining operation. For individual States and counties, such figures represent the net usable product from mines and dredges located within the boundaries of the designated areas. At the mine level, the net production includes the tonnage of prepared coal mined and prepared at the same establishment, coal mined and used at the same establishment for power or heat, the prepared or sized coal equivalent of raw coal mined for preparation at other establishments, and raw coal sold for use without preparation. In 1958, about 86 percent of all bituminous coal net shipments represented coal prepared prior to use. This includes 62 percent which was mechanically cleaned and 24 percent which was only crushed, screened, or sized. For lignite, no coal was mechanically cleaned, but 92 percent was crushed, screened, or sized. From previous Censuses of Mineral Industries, statistics on prepared bituminous coal and lignite are available only for coal mechanically cleaned; but in the 1958 census for bituminous coal, as for anthracite in 1958 and earlier years, preparation is defined as including crushing, screening, and sizing as well as mechanical cleaning. However, separate figures are shown wherever possible for mechanical cleaning and for operations which crush, screen, or size only.

**Contract Work.**—Establishments classified in the bituminous coal and lignite mining services industries reported receipts of \$22 million for services performed. A total of 1,520 persons were engaged in these services, accounting for less than one percent of the total persons engaged in the bituminous coal and lignite mining industries.

Stripping and auger mining was the principal activity of bituminous coal contractors. Such coal represents an increasing proportion of the total coal mined. Bituminous coal operators reported a total of 122 million tons of strip-pit and auger mined coal produced, of which 6.5 million tons were mined for them by contractors. While this is a slight decrease from 1954, the contract industries in 1958 accounted for approximately 7 percent of the man-hours worked in strip-pit and auger mining.

Establishments classified in the bituminous coal and lignite services industries were permitted to file one report for all mining services performed in the United



States. These reports were classified on the basis of the principal type of service performed and the principal industries served to determine their industry or subindustry classification. Each report included data on the amount received for services, the number of employees in March, and the tonnage of raw coal mined, by State and county. For county statistics, all other figures in each report were allocated on the basis of these reported data.

The figures in this report for the two bituminous coal and lignite services industries—Bituminous Coal and Lignite Stripping and Auger Mining Services and Bituminous Coal and Lignite Mining Services, Except Stripping, N.E.C.—cover, except for hauling, all service activities which represent an integral part of bituminous coal and lignite mining operations. Receipts by such contractors represent 31 percent of the total payments for contract services reported by the bituminous coal and lignite industries. In addition, a small amount of such contract work was done by operators of bituminous coal and lignite mines, presumably primarily for other coal mines, amounting to about 2 percent of payments for contract work by the bituminous coal and lignite industries. The statistics from these two sources probably represent nearly complete coverage of services of the type classified in the mineral industries.

Payments for contract work by the bituminous coal and lignite industries exceeded reported receipts for contract work by about \$47 million. Part of the difference between reported receipts and payments is accounted for by the cost of hauling coal beyond the mine property. It seems likely that a large part of the remainder represents payments made to companies engaged in contract construction of preparation plants and other facilities at mine and preparation plant properties. Capital expenditures for preparation plant and other construction, including capitalized repairs and improvements, amounted to about \$67 million for establishments classified in the bituminous coal and lignite industries. Establishments reporting large capital expenditures of this type usually also reported substantial payments to contractors. The table below summarizes for the United States and for selected Divisions and States, the available data on payments and receipts for contract services of establishments included in 1958 in the bituminous coal and lignite mining industries and the corresponding capital expenditures by bituminous coal and lignite mine and preparation plant operators for preparation plant and other construction.

**Secondary Production.**—The general statistics (employment, payrolls, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates

PAYMENTS AND RECEIPTS FOR BITUMINOUS COAL AND LIGNITE MINING SERVICES AND AMOUNTS CAPITALIZED FOR CONSTRUCTION AT ESTABLISHMENTS IN THE BITUMINOUS COAL AND LIGNITE MINING INDUSTRIES IN THE UNITED STATES, BY SELECTED DIVISIONS AND STATES: 1958

(Figures in thousands of dollars)

Divisions and States	Cost of contract work as reported by mine or plant operators	Receipts for services reported in the bituminous coal and lignite mining industries			Excess of contract payments over receipts	Capital expenditures by operators for construction
		Total	By contractors	By operators		
UNITED STATES.....	69,760	22,731	21,649	1,082	47,029	66,531
Middle Atlantic (Pennsylvania).....	19,703	8,219	7,610	609	11,484	8,744
East North Central.....	6,413	1,562	1,449	113	4,851	5,776
Ohio.....	4,226	1,470	1,394	76	2,756	1,219
Illinois.....	1,412	46	9	37	1,366	3,852
South Atlantic.....	26,013	8,464	8,274	190	17,549	38,210
Virginia.....	10,713	2,114	2,076	38	8,599	16,662
West Virginia.....	15,189	5,986	5,856	130	9,203	21,416
East South Central.....	11,579	3,102	2,956	146	8,477	7,481
Kentucky.....	7,980	2,000	1,944	56	5,980	6,311

of such data for an industry reflect not only the primary activities of establishments in the industry, but also their activities in the production of secondary products and in the performance of contract work for others. This fact should be taken into account in comparing industry statistics (tables 1-4 and 7-12) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5 which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries. However, secondary products and services in the bituminous coal and lignite industries amounted to only about 0.1 percent of the total value of shipments

for the industry. Only 0.02 percent of bituminous coal and lignite was produced in other industries, primarily in the clay and related products industries.

**Comparability with Bureau of Mines Statistics.**—Some differences occur in the similar statistics prepared by the two agencies, arising principally from differences in methods followed and objectives sought. Some of the comparable product statistics of the two agencies are shown in the table below. The reasons for such differences, to the extent that they pertain to statistics for the bituminous coal and lignite mining industries, are summarized below:

- (1) The Bureau of Mines excludes all mines having an output of less than 1,000 tons a year, whereas the Bureau of the Census excludes only small establishments whose value of products and reported costs for produc-

tion, development, or maintenance work were less than \$500. However, the contribution to product of such excluded establishments is usually small.

(2) The Bureau of Mines statistics on both production and shipments are based primarily on data furnished by producers. These data are supplemented, however, by data from various State mine department records and, in a few instances, from railroad car loadings, in order to obtain coverage of production not directly reported. The Bureau of Mines figures represent the quantity and value of net marketable coal produced, excluding washery and other refuse, distributed among the States and counties from which the coal originated. The Census statistics are on an establishment basis and take into account the actual location and type of product of the establishment as reported by the respondent, making a distinction between "net production" and "net shipments." The Bureau of Mines statistics, therefore, are comparable by State and county only with the Census statistics for "net production" and are not comparable with the Census State and county figures for "net shipments."

(3) Both the Bureau of Mines and the Census Bureau collected information on mechanical cleaning of coal. However, the Bureau of Mines credits the clean coal to the location or locations at which the coal was mined, whereas the Census statistics show the clean coal shipped according to the location of the cleaning plant. The Census clean coal statistics represent mechanical cleaning at plants operated in conjunction with mines and at separately operated cleaning plants (these are included in the Bituminous Coal Industry) and exclude figures for coal cleaning at preparation plants operated as parts of coke ovens or other manufacturing establishments.

The Bureau of Mines includes data for these consumer-operated plants in their statistics on mechanical cleaning.

Both agencies obtain information on mechanical crushing, and the Census, in addition, obtains data for screening and sizing. The Bureau of Mines figures for mechanical crushing show all coal crushed at mines, including that which was both crushed and mechanically cleaned. The Census figures represent coal prepared only by mechanical crushing, screening, and sizing.

(4) The Bureau of Mines commodity statistics include data for State-owned or State-operated mines producing coal, with inmate labor, for use at State institutions. Government institutions, in general, are out of scope of the Census. In 1954, when the report forms used by the Bureau of the Census for the bituminous coal and lignite industries also provided information required by the Bureau of Mines for its annual commodity statistics on bituminous coal and lignite, coal shipments from such mines, amounting to 142 thousand tons with a mine value of \$488 thousand, were included in the Census product statistics. The 1958 Census statistics do not include data for such institutions, and the 1954 totals have been revised for comparability with 1958.

(5) The Bureau of the Census, for the first time in 1958, collected information on coal purchased and resold without further processing. Data for such resales are not collected by the Bureau of Mines. The Census figures show 5.4 million tons purchased for \$19.6 million and resold for \$23.0 million.

(6) Differences exist in establishment coverage in certain areas for both collection agencies.



## MINERAL INDUSTRIES-INDUSTRY STATISTICS

QUANTITY AND VALUE OF BITUMINOUS COAL AND LIGNITE AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU OF MINES FOR THE UNITED STATES, STATES, AND BY METHOD OF MINING: 1958

(Includes Alaska)

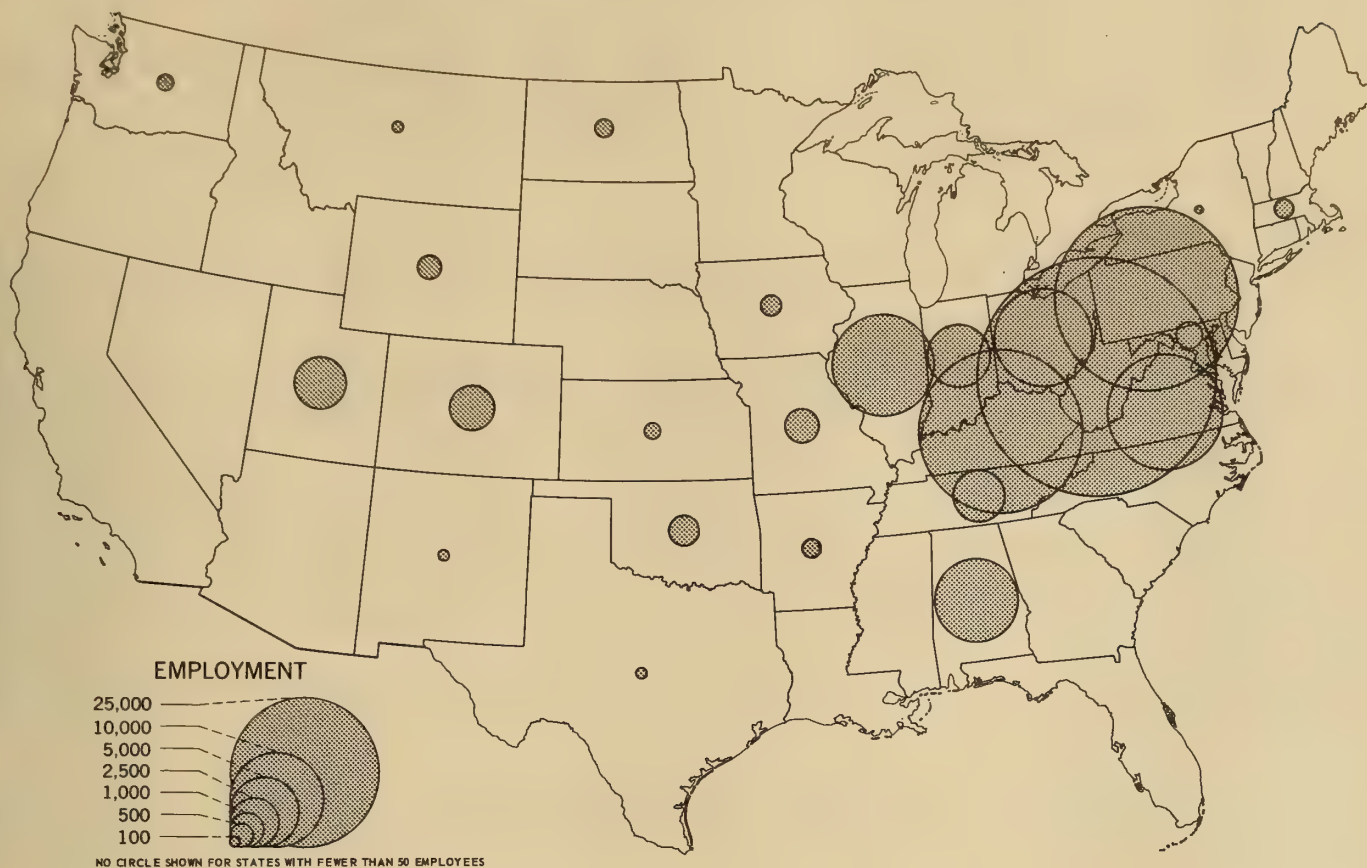
Product	Bureau of the Census statistics			Bureau of Mines statistics		
	Production (1,000 short tons)	Shipments including interplant transfers		Production (1,000 short tons)	Shipments	
		Quantity (1,000 short tons)	Value (\$1,000)		Quantity (1,000 short tons)	Value <sup>1</sup> (\$1,000)
Bituminous coal:						
Net production and shipments.....	413,580	417,075	2,062,140	408,019	(NA)	1,990,575
REGION AND STATE						
Middle Atlantic (Pennsylvania).....	68,651	69,617	380,374	67,771	(NA)	373,812
East North Central, total.....	92,255	93,338	373,308	90,962	(NA)	361,360
Ohio.....	32,957	33,970	138,309	32,028	(NA)	126,241
Indiana.....	15,129	15,059	58,116	15,022	(NA)	58,505
Illinois.....	44,169	44,309	176,883	43,912	(NA)	176,614
West North Central, total.....	4,622	4,572	18,839	4,594	(NA)	18,969
Iowa.....	1,234	1,261	4,520	1,179	(NA)	4,147
Missouri.....	2,619	3,311	14,319	2,592	(NA)	11,111
Kansas.....	769			823	(NA)	3,711
South Atlantic.....	149,806	151,349	806,869	147,141	(NA)	768,725
Maryland.....	884	889	3,952	838	(NA)	3,161
Virginia.....	24,672	26,255	128,386	26,826	(NA)	130,319
West Virginia.....	124,238	124,193	674,478	119,468	(NA)	635,201
East South Central, total.....	84,651	84,736	396,265	84,279	(NA)	387,714
Kentucky.....	67,254	66,671	292,696	66,312	(NA)	289,385
Tennessee.....	5,698	6,304	25,384	6,785	(NA)	25,969
Alabama.....	11,699	11,761	78,185	11,182	(NA)	72,360
West South Central, total.....	2,046	2,047	14,354	1,994	(NA)	13,602
Arkansas.....	390	390	3,068	364	(NA)	2,744
Oklahoma.....	1,656	1,657	11,286	1,630	(NA)	10,858
Mountain.....	10,527	10,394	62,996	10,267	(NA)	57,494
Montana.....	214	216	1,142	211	(NA)	1,256
Wyoming.....	1,643	1,634	5,613	1,629	(NA)	5,820
Colorado.....	3,210	3,121	19,129	2,974	(NA)	19,305
Utah.....	5,329	5,293	36,293	5,328	(NA)	30,340
Pacific (Washington).....	257	260	2,037	252	(NA)	1,968
Alaska.....	765	762	7,098	759	(NA)	6,931
Lignite:						
Net production and shipments.....	4,231	4,231	11,021	2,427	(NA)	5,706
REGION AND STATE						
East and South.....	4,123	4,123	10,750	2,333	(NA)	5,487
Mountain (Montana).....	108	108	271	94	(NA)	219
Bituminous coal and lignite:						
METHOD OF MINING						
Strip pit.....	119,642	(NA)	(NA)	116,242	(NA)	(NA)
Underground.....	290,719	(NA)	(NA)	286,884	(NA)	(NA)
Auger.....	7,197	(NA)	(NA)	7,320	(NA)	(NA)
Culm bank.....	228	(NA)	(NA)	...	...	...
Dredge.....	25	(NA)	(NA)	...	...	...
MECHANICAL CLEANING						
Raw coal cleaned.....	324,119	(NA)	(NA)	320,898	(NA)	(NA)
Clean coal produced or shipped.....	(NA)	258,683	1,349,755	259,035	(NA)	(NA)

NA Not available.

<sup>1</sup>Represents value of production.

# BITUMINOUS COAL AND LIGNITE MINING

Distribution of Employment by State:1958



## Employment and Production:1840-1958

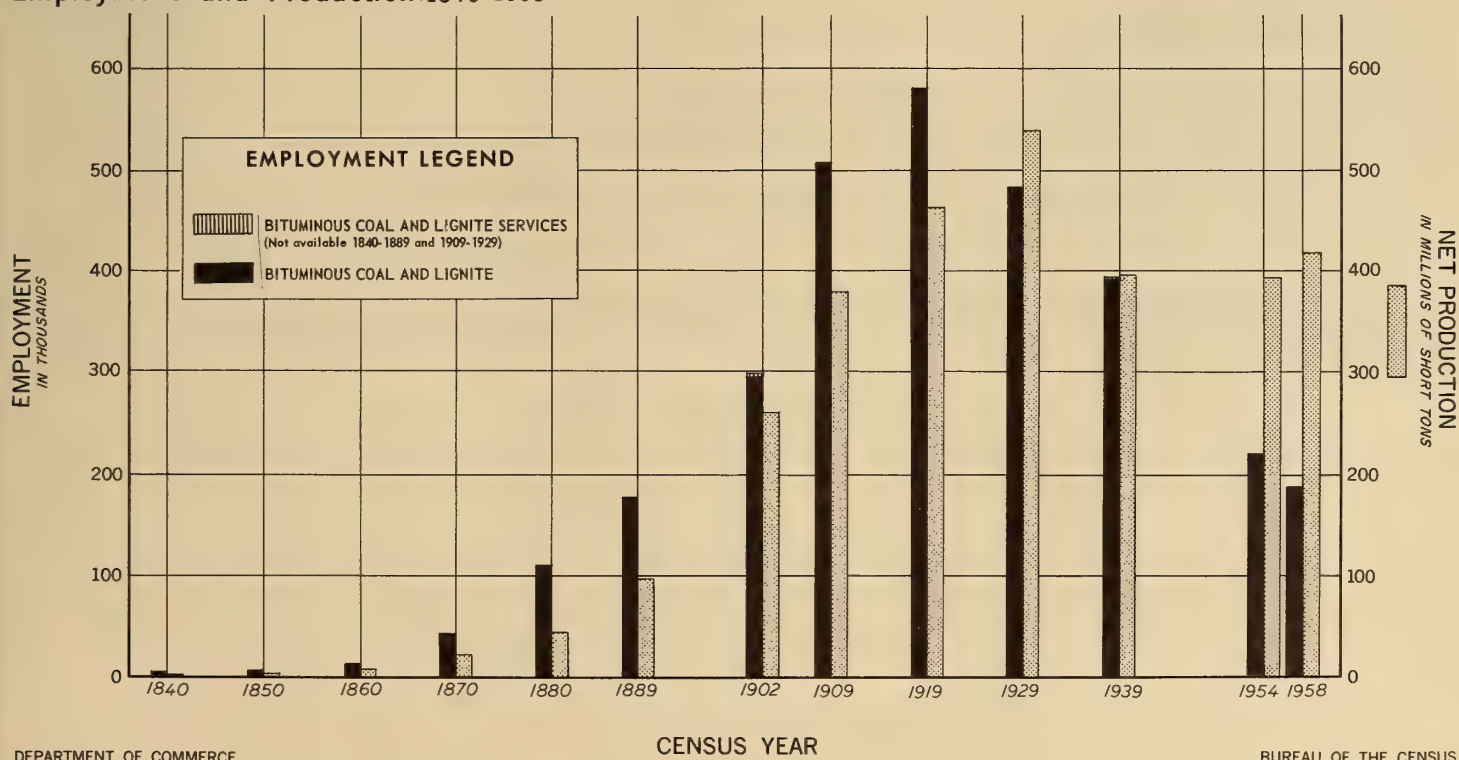




Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 194 Census of Mineral Industries, Vol. 1)

Industry code, industry, and year	Operating com- panies, number	Establishments, number		All employees		Production and development workers			Value added in mining	Selected expenses (\$1,000)				Value of shipments and receipts	Value of net ship- ments and receipts	Net pro- duction of coal <sup>1</sup>	Capital expendi- tures
		Total	With 20 or more employ- ees	Number	Payroll	Number	Man- hours	Wages		Supplies, purchases for resale, and purchased fuels and electricity	Coal received for prep- aration	Contract or sub- contract work	Pur- chased machin- ery in- stalled				
					(\$1,000)		(1,000)	(\$1,000)	(\$1,000)					(\$1,000)	(\$1,000)	(1,000 short tons)	(\$1,000)
12—BITUMINOUS COAL AND LIGNITE MINING:																	
1958.....	6,300	6,930	1,371	187,706	912,784	163,533	267,699	760,364	1,609,964	453,781	325,224	70,632	151,955	2,423,361	2,091,428	416,915	188,195
1954.....	6,104	6,855	1,463	218,833	874,305	199,655	325,769	764,863	1,418,384	387,829	203,953	55,188	121,640	2,068,183	1,806,319	391,109	118,811
1939.....	5,182	25,847	(NA)	390,778	476,676	370,944	545,702	432,188	610,674	118,843	(NA)	1,910	(NA)	(NA)	731,427	394,707	(NA)
1211—BITUMINOUS COAL:																	
1958.....	6,102	6,715	1,342	185,676	902,759	161,711	264,308	751,584	1,585,541	446,659	325,224	69,727	147,493	2,390,677	2,058,794	412,684	183,967
1954.....	5,913	6,643	1,434	216,813	865,649	197,819	322,410	757,175	1,396,774	382,522	203,953	54,231	118,481	2,040,200	1,778,336	386,864	115,761
1939.....	5,021	25,716	(NA)	388,955	474,747	369,265	542,310	430,564	607,318	118,141	(NA)	1,899	(NA)	(NA)	727,358	391,729	(NA)
1935 <sup>4</sup> .....	(NA)	26,311	(NA)	545,234	543,208	435,426	(NA)	402,677	554,894	103,581	(NA)	(NA)	(NA)	(NA)	658,475	372,254	(NA)
1929 <sup>4</sup> .....	(NA)	4,995	(NA)	482,521	633,566	458,835	(NA)	574,919	819,976	144,828	(NA)	1,890	34,947	(NA)	966,694	537,443	(NA)
1919 <sup>4</sup> .....	(NA)	6,662	(NA)	579,895	751,941	546,269	(NA)	683,192	962,833	180,276	...	2,869	(NA)	1,145,978	1,145,978	460,426	(NA)
1909 <sup>4</sup> .....	3,544	4,395	(NA)	506,559	291,129	488,685	(NA)	270,648	341,737	57,657	...	2,406	(NA)	401,800	401,800	376,953	(NA)
1902 <sup>4</sup> .....	4,409	25,652	(NA)	295,051	195,994	7280,638	(NA)	181,482	264,815	24,799	(NA)	1,244	(NA)	(NA)	290,858	260,217	(NA)
1889 <sup>4</sup> .....	(NA)	24,211	(NA)	175,356	69,852	169,104	(NA)	65,658	85,677	8,006	(NA)	822	(NA)	(NA)	894,505	895,685	(NA)
1880 <sup>4</sup> .....	(NA)	98,144	(NA)	109,014	33,161	(NA)	(NA)	(NA)	48,610	4,857	(NA)	(NA)	(NA)	(NA)	953,467	942,841	(NA)
1870 <sup>4</sup> .....	(NA)	1,337	(NA)	41,733	21,334	(NA)	(NA)	(NA)	33,015	2,073	(NA)	(NA)	(NA)	(NA)	35,088	19,279	(NA)
1860 <sup>4</sup> .....	(NA)	446	(NA)	11,360	4,147	(NA)	(NA)	(NA)	7,259	1,115	(NA)	(NA)	(NA)	(NA)	8,374	6,219	(NA)
1850 <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1,905	2,308	(NA)
1840 <sup>4</sup> .....	(NA)	(NA)	(NA)	3,834	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	101,108	(NA)
1212—LIGNITE:																	
1958.....	53	58	8	510	2,693	437	844	2,261	9,309	1,603	...	33	1,522	11,035	11,035	4,231	1,432
1954.....	56	60	9	574	2,588	505	901	2,177	9,093	1,120	...	206	607	10,387	10,387	4,245	639
1939 <sup>4</sup> .....	130	2131	(NA)	1,595	1,603	1,480	3,027	1,384	2,879	567	(NA)	11	(NA)	(NA)	3,457	2,978	(NA)
1213—COAL STRIP- PING SERVICES, NEC:																	
1958.....	137	137	19	1,300	6,373	1,180	2,106	5,615	13,409	4,722	xxx	815	2,816	19,162	19,130	(11)	2,600
1954.....	137	137	(NA)	1,284	5,300	1,196	2,202	4,923	11,190	3,810	xxx	750	2,509	15,960	(D)	(11)	2,299
1939 <sup>12</sup> .....	32	(NA)	(NA)	228	326	199	365	240	477	135	xxx	(NA)	(NA)	612	612	(11)	41
1902 <sup>13</sup> .....	(NA)	(NA)	(NA)	5,040	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1,244	(11)	(NA)
1214—COAL MINING SERVICES, NEC:																	
1958.....	20	20	2	220	959	205	441	904	1,705	797	xxx	57	124	2,487	2,469	(11)	196
1954.....	15	15	(NA)	162	768	135	256	588	1,327	377	xxx	1	43	1,636	(D)	(11)	112

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>Revised.<sup>1</sup>Represents the clean-coal equivalent of all coal mined, based on the location of the mine, including coal produced and used at the same establishment for power or heat.<sup>2</sup>Represents number of mines.<sup>3</sup>For 1939 and probably for earlier years, excludes the cost of purchases for resale.<sup>4</sup>For years prior to 1939, figures for the Lignite Industry are included with those for the Bituminous Coal Industry.<sup>5</sup>Excludes data for persons engaged at central offices not located at the mine property.<sup>6</sup>Adjusted to exclude data for coke manufacture at coal mines, to include "anthracite" production outside of Pennsylvania, and to transfer from wages to cost of supplies, the cost of explosives, oil, and blacksmithing furnished to miners.<sup>7</sup>Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.<sup>8</sup>For 1889, includes data for 9,920 "local mines and farmers' banks," producing about 2 percent of all coal, for which no data are available on labor or expenditures.<sup>9</sup>Includes data for 5,148 mines, producing 917 thousand tons of coal valued at \$1,093 thousand, representing "irregular" operations for which no other data are available.<sup>10</sup>Reported as "27,603,191 bushels raised" of bituminous coal and 3,803 tons of anthracite raised outside of Pennsylvania.<sup>11</sup>Coal mined by the Bituminous Coal and Lignite Services Industries is included in the production shown for the Bituminous Coal and Lignite Industries.<sup>12</sup>For 1939, figures for the Coal Mining Services, NEC Industry are included with those for the Coal Stripping Services, NEC Industry.<sup>13</sup>Represents number of employees engaged in all contract work and payments for all contract work as reported by companies operating bituminous coal and lignite mines.



Table 2A.—General Statistics by Regions and Type of Operation: 1958 and 1954

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries by State see table 2 of the corresponding chapter of 1954 Census of Mineral Industries, Vol. I)

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of coal <sup>2</sup> (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1211	BITUMINOUS COAL:														
	United States and Alaska, total.....	6,725	1,346	185,933	905,041	161,908	264,779	753,320	1,591,321	991,165	2,398,224	2413,449	184,262	217,186	1,402,551
	United States, total...	6,715	1,342	185,676	902,759	161,711	264,308	751,584	1,585,541	989,103	2,390,677	2412,84	183,967	216,813	1,396,774
	<u>Division and State</u>														
	Middle Atlantic (Pennsylvania).....	1,312	226	436,873	183,486	31,747	51,153	148,109	286,384	195,519	450,022	68,571	31,881	50,497	294,970
	East North Central, total....	612	201	25,201	142,949	21,563	38,142	116,442	283,283	159,185	413,049	92,204	29,419	30,832	258,913
	Ohio.....	383	96	9,938	53,419	8,282	14,361	41,417	100,122	77,169	165,263	32,919	12,028	11,132	90,164
	Indiana.....	88	34	4,104	22,853	3,411	5,724	18,213	44,268	21,542	61,014	15,116	4,796	4,744	39,588
	Illinois.....	141	71	11,139	66,591	9,870	18,057	56,812	138,893	60,474	186,772	44,169	12,595	14,956	129,161
	West North Central, total....	130	15	1,877	9,700	1,182	2,174	5,607	16,022	8,274	20,072	4,622	4,224	1,949	15,471
	Iowa.....	59	2	421	1,436	395	765	1,321	3,552	1,787	4,779	1,234	560	602	3,556
	Missouri.....	51	10	1,204	6,757	583	1,097	3,198	9,832	5,540	11,939	2,619	3,433	850	7,644
	Kansas.....	20	3	252	1,507	204	312	1,088	2,638	947	3,354	769	231	497	4,271
	South Atlantic.....	2,655	536	75,925	362,347	66,687	109,209	307,820	636,742	384,172	936,350	149,806	84,564	79,156	494,259
	Maryland.....	77	5	540	1,846	504	857	1,730	2,985	2,685	5,210	884	460	371	1,631
	Virginia.....	869	127	13,737	53,097	11,950	18,670	45,004	100,135	80,411	151,825	24,672	28,721	11,720	61,508
	West Virginia.....	1,704	404	61,634	307,369	54,220	89,663	261,052	533,574	301,069	779,262	124,238	55,381	67,056	431,087
	East South Central, total....	1,730	298	38,511	166,760	34,367	53,624	143,461	302,832	199,417	477,196	84,651	25,053	44,608	268,259
	Kentucky.....	1,306	232	28,397	121,721	25,329	39,842	106,066	227,458	154,316	362,887	67,254	18,887	31,787	193,094
	Tennessee.....	277	26	2,661	9,628	2,416	3,509	8,574	16,575	14,724	29,123	5,698	2,176	4,133	20,837
	Alabama.....	147	40	7,453	35,411	6,622	10,273	28,821	58,799	30,377	85,186	11,699	3,990	8,688	54,328
	West South Central, total....	60	14	1,059	5,524	974	1,797	5,002	10,618	4,622	14,413	2,046	827	1,622	11,637
	Arkansas.....	29	4	252	1,219	228	388	1,081	2,081	1,205	3,086	390	200	457	2,783
	Oklahoma.....	31	10	807	4,305	746	1,409	3,921	8,537	3,417	11,327	1,656	627	1,165	8,854
	Mountain.....	203	47	5,666	28,429	4,946	7,818	23,941	48,051	36,899	77,040	10,527	7,910	7,449	49,936
	Montana.....	18	2	146	687	129	208	600	854	315	1,148	214	21	338	2,906
	Wyoming.....	20	6	506	1,991	399	531	1,506	4,244	1,749	5,619	1,643	374	1,222	8,857
	Colorado.....	105	21	2,016	9,628	1,800	2,807	8,359	16,348	4,698	19,698	3,210	1,348	2,618	13,480
	New Mexico.....	22	1	156	588	133	225	515	1,184	874	783	(D)	1,275	159	614
	Utah.....	35	17	2,824	15,507	2,467	4,025	12,933	25,376	29,254	49,738	5,329	4,892	3,091	24,020
	Pacific (Washington).....	13	5	276	1,360	245	391	1,202	1,609	1,015	2,535	257	89	6700	63,329
	Alaska.....	10	4	257	2,282	197	471	1,736	5,780	2,062	7,547	765	295	373	5,777
	<u>Type of Operation</u>														
	United States, total...	6,715	1,342	185,676	902,759	161,711	264,308	751,584	1,585,541	989,103	2,390,677	2412,684	183,967	216,813	1,396,774
	Producing establishments, total.....	6,669	1,339	185,453	901,682	161,534	264,042	750,682	1,584,981	978,653	2,390,677	492,840	172,957	216,611	1,397,051
	Mines only:														
	Strip-pit.....	737	60	5,657	26,408	5,055	8,876	23,170	71,646	41,346	105,115	29,892	7,877	711,982	7119,337
	Underground.....	3,926	361	42,067	154,376	37,889	57,788	135,047	247,103	99,905	328,973	77,532	18,035	784,686	7450,438
	Strip-pit and underground.....	23	3	277	1,221	252	433	1,086	2,606	1,177	3,692	939	91	7576	72,788
	Auger.....	116	5	624	2,485	547	870	2,198	5,862	4,239	9,405	2,935	696	7404	73,925
	Strip-pit and auger.....	44	13	832	4,237	729	1,267	3,621	12,549	7,334	17,918	4,594	1,965	71,766	718,043
	Other combinations.....	16	5	1,071	5,733	911	1,610	4,675	12,108	4,324	15,696	3,277	736	71,113	75,283
	Mines with preparation plants:														
	With mechanical cleaning:														
	Strip-pit:														
	Coarse sizes.....	107	89	8,278	54,112	6,815	13,022	43,830	136,553	67,849	188,048	48,911	16,354	7,384	92,635
	Fine sizes only.....	5	2	143	640	140	221	613	1,587	443	1,863	433	167		
	Underground:														
	Coarse sizes.....	371	339	81,258	438,000	68,961	112,906	350,883	715,708	299,438	937,232	172,870	77,914	101,134	644,155
	Fine sizes only.....	29	21	6,213	32,574	5,573	9,046	27,632	52,611	24,863	71,734	12,314	5,740		
	Strip-pit and underground.....	22	20	3,019	16,257	2,803	4,696	14,734	28,095	23,813	46,978	8,718	4,930	1,921	12,891
	Strip-pit and auger.....	11	8	755	4,233	691	1,271	3,843	13,349	8,540	18,252	4,691	3,637	404	8,357
	Underground and auger..	10	10	2,342	12,132	2,129	3,212	10,630	15,564	9,537	23,584	4,845	1,517	1,794	11,921
	Other combinations, auger only, and dredge	19	9	1,809	8,961	1,600	2,659	8,171	13,791	7,863	18,773	3,182	2,881	1,081	7,775
	With mechanical crushing, screening, or sizing only:														
	Strip-pit:														
	With crushing.....	254	93	5,284	24,336	4,617	8,685	21,208	56,237	36,902	84,943	21,830	8,196	(7)	(7)
	With screening or sizing only.....	77	15	967	4,203	812	1,682	3,705	9,233	7,899	14,992	3,502	2,140	(7)	(7)

See footnotes at end of table.

Table 2A.—General Statistics by Regions and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of coal <sup>2</sup> (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Type of Operation—Con.</u>														
	Producing establishments—Continued														
	Mines with preparation plants—Continued														
	With mechanical crushing, screening, or sizing only—Continued														
	Underground:														
	With crushing.....	309	154	14,130	65,560	12,607	20,343	56,281	102,579	48,152	142,459	26,150	8,272	(7)	(7)
	With screening or sizing only.....	274	53	4,594	17,119	4,145	6,255	15,117	26,452	11,660	36,394	7,126	1,718	(7)	(7)
	Auger.....	20	5	260	1,006	223	274	826	2,208	1,591	3,367	949	432	(7)	(7)
	Strip-pit and underground.....	25	10	563	2,220	528	997	1,940	4,336	4,664	8,188	1,819	812	(7)	(7)
	Strip-pit and auger....	47	22	1,276	6,179	1,089	2,194	5,348	12,518	13,075	23,329	5,866	2,264	(7)	(7)
	Other combinations.....	17	10	790	4,129	674	1,217	3,525	8,887	5,997	14,386	3,110	498	(7)	(7)
	Preparation plants only:														
	Mechanical cleaning:														
	Coarse sizes only.....	8	1	82	323	67	108	254	1,155	5,848	6,913	1,488	90	1,803	14,759
	Coarse sizes with screening and sizing..	4	2	82	452	68	119	323	2,102	6,448	8,505	1,383	45		
	Coarse sizes with crushing.....	12	2	159	661	126	211	502	1,968	10,165	11,952	2,314	181		
	Coarse and fine sizes and fine sizes only...	35	20	1,863	10,078	1,604	2,596	8,284	17,741	173,352	185,969	29,348	5,124		
	Mechanical crushing, screening, or sizing only:														
	Crushing only.....	34	3	248	960	192	365	768	2,021	12,724	14,675	3,172	70	563	4,744
	Crushing, screening, and sizing.....	80	3	598	2,401	507	880	1,914	7,005	31,945	38,510	7,715	440		
	Screening and sizing only.....	37	1	212	678	180	239	554	1,407	7,560	8,832	1,935	135		
	Nonproducing establishments..	46	3	223	1,077	177	266	902	560	10,450	...	...	11,010	202	(8)
	<u>Division, State, and Selected Types of Operation</u>														
	Middle Atlantic (Pennsylvania).....	1,312	226	436,873	4183,486	31,747	51,153	148,109	286,384	195,519	450,022	68,571	31,881	50,497	294,970
	Producing establishments:														
	Mines only:														
	Strip-pit.....	288	16	1,746	7,492	1,546	2,783	6,785	19,092	13,830	29,523	7,877	3,399	(9)	(9)
	Underground.....	589	39	8,246	38,969	7,415	11,485	32,997	59,296	19,759	76,164	16,189	2,891	(9)	(9)
	Strip-pit and underground.....	13	1	167	892	152	290	778	1,964	1,019	2,909	685	74	(9)	(9)
	Strip-pit and auger....	8	1	106	430	92	166	353	924	638	1,409	471	153	(9)	(9)
	Mines with preparation plants:														
	With mechanical cleaning:														
	Strip-pit.....	22	14	869	4,662	788	1,539	3,975	9,531	6,625	14,254	3,375	1,902	94,103	935,381
	Underground:														
	Coarse sizes.....	62	57	17,794	96,044	14,814	22,997	72,508	138,496	52,081	181,614	28,710	8,963	944,619	9246,656
	Fine sizes only....	4	4	235	1,139	213	313	963	1,536	1,341	2,413	487	464		
	Combination.....	8	6	1,185	5,922	1,042	1,811	5,311	7,714	5,205	11,769	1,885	1,150	91,067	97,124
	With mechanical crushing, screening, or sizing only:														
	Strip-pit:														
	With crushing.....	101	31	1,908	7,364	1,640	3,234	6,594	15,180	14,127	26,856	6,752	2,451	(9)	(9)
	With screening or sizing only.....	26	6	323	1,298	289	573	1,173	3,493	2,780	5,526	1,239	747	(9)	(9)
	Underground:														
	With crushing.....	60	26	2,396	11,212	2,134	3,298	9,701	14,869	9,406	22,325	4,200	1,950	(9)	(9)
	With screening or sizing only.....	52	7	601	2,104	479	654	1,792	3,032	1,249	4,132	761	149	(9)	(9)
	Strip-pit and underground.....	13	7	343	1,359	304	577	1,187	2,859	3,188	5,381	1,161	666	(9)	(9)
	Strip-pit and auger..	5	2	101	447	94	188	423	806	1,164	1,596	395	374	(9)	(9)

See footnotes at end of table.



Table 2A.—General Statistics by Regions and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, etc., and purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Quantity of coal <sup>2</sup> (1,000 short tons)	Capital expenditures (\$1,000)	All employees, number	Value added in mining (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Division, State, and Selected Types of Operation—Continued</u>														
	Middle Atlantic (Pennsylvania)—Continued														
	Producing establishments—Continued														
	Preparation plants only:														
	Mechanical cleaning....	11	5	493	2,579	449	718	2,277	5,360	52,683	57,386	8,503	657	654	5,867
	Mechanical crushing, screening, or sizing only	22	1	128	471	92	149	327	678	3,843	4,451	1,081	70		
	East North Central.....	612	201	25,201	142,949	21,563	38,142	116,442	283,286	159,182	413,049	92,204	29,419	30,832	258,913
	Ohio.....	383	96	9,938	53,419	8,282	14,361	41,417	100,122	77,169	165,263	32,919	12,028	11,132	90,164
	Producing establishments:														
	Mines only:														
	Strip-pit.....	97	18	1,371	7,096	1,234	2,096	6,018	22,324	8,477	29,275	8,582	1,526	( <sup>9</sup> )	( <sup>9</sup> )
	Underground.....	107	5	931	2,882	818	1,096	2,470	5,745	1,635	6,971	1,883	409	( <sup>9</sup> )	( <sup>9</sup> )
	Auger.....	9	...	54	198	38	53	166	624	(D)	719	276	(D)	( <sup>9</sup> )	( <sup>9</sup> )
	Strip-pit and auger..	10	5	323	1,685	287	495	1,468	5,636	(D)	7,358	1,862	(D)	( <sup>9</sup> )	( <sup>9</sup> )
	Mines with preparation plants:														
	With mechanical cleaning:														
	Strip-pit.....	4	4	360	2,370	321	658	2,118	6,057	2,968	8,741	2,650	284	<sup>9</sup> 3,849	<sup>9</sup> 40,652
	Underground.....	12	11	3,108	20,251	2,247	3,907	12,809	24,987	7,304	31,436	6,770	855	<sup>9</sup> 6,024	<sup>9</sup> 35,916
	Combination.....	5	5	571	3,055	520	789	2,689	5,962	6,509	9,338	2,162	3,133	<sup>9</sup> 1,219	<sup>9</sup> 13,142
	With mechanical crushing, screening, and sizing only:														
	Strip-pit:														
	With crushing....	55	27	1,336	6,829	1,177	2,368	5,808	14,382	8,704	21,566	6,374	1,520	( <sup>9</sup> )	( <sup>9</sup> )
	With screening or sizing only.....	17	5	334	1,600	269	592	1,373	3,108	3,363	5,349	1,302	1,122	( <sup>9</sup> )	( <sup>9</sup> )
	Underground:														
	With crushing....	11	2	225	677	208	268	630	981	260	1,201	264	40	( <sup>9</sup> )	( <sup>9</sup> )
	With screening or sizing only.....	27	4	325	1,334	296	474	1,196	1,702	465	2,088	460	79	( <sup>9</sup> )	( <sup>9</sup> )
	Strip-pit and auger	11	7	393	2,150	338	715	1,887	4,435	4,258	7,964	1,951	729	( <sup>9</sup> )	( <sup>9</sup> )
	Auger and other combinations.....	4	1	151	771	137	241	709	2,060	745	2,688	678	117	( <sup>9</sup> )	( <sup>9</sup> )
	Preparation plants only	10	2	451	2,505	387	604	2,062	2,119	28,640	30,569	5,617	190	<sup>10</sup> 40	<sup>10</sup> 454
	Indiana.....	88	34	4,104	22,853	3,411	5,724	18,213	44,268	21,542	61,014	15,116	4,796	4,744	39,588
	Producing establishments:														
	Mines only(strip-pit) <sup>11</sup>	23	3	283	1,935	244	472	1,584	8,533	2,893	11,048	3,358	378	( <sup>9</sup> )	( <sup>9</sup> )
	Mines with preparation plants:														
	With mechanical cleaning:														
	Strip-pit.....	11	11	1,145	7,173	952	1,598	5,643	17,757	5,515	22,643	6,043	629	<sup>9</sup> 2,289	<sup>9</sup> 23,907
	Underground.....	8	8	1,834	9,428	1,470	2,400	7,157	12,201	4,034	15,955	3,832	280	(NA)	(NA)
	With mechanical crushing, screening, or sizing only:														
	Strip-pit.....	10	7	348	1,916	309	501	1,613	3,583	1,559	4,816	1,040	326	( <sup>9</sup> )	( <sup>9</sup> )
	Underground:														
	With crushing....	5	1	236	1,323	205	399	1,238	2,110	710	2,762	649	58	(NA)	(NA)
	Illinois.....	141	71	11,139	66,591	9,870	18,057	56,812	138,893	60,474	186,772	44,169	12,595	14,956	129,161
	Producing establishments:														
	Mines only:														
	Strip-pit.....	18	2	153	929	136	246	794	2,639	1,272	3,811	1,337	100	( <sup>9</sup> )	( <sup>9</sup> )
	Underground.....	31	7	744	3,671	698	1,200	3,383	7,172	2,257	8,887	2,687	542	( <sup>9</sup> )	( <sup>9</sup> )
	Mines with preparation plants:														
	With mechanical cleaning:														
	Strip-pit.....	33	31	3,263	22,722	2,875	5,628	19,829	61,129	32,730	86,782	21,839	7,077	<sup>9</sup> 3,129	<sup>9</sup> 47,683
	Underground.....	27	24	6,514	37,660	5,724	10,352	31,289	65,209	22,677	83,901	20,881	3,985	<sup>9</sup> 11,525	<sup>9</sup> 78,987
	With mechanical crushing, screening, and sizing:														
	Underground:														
	With crushing....	7	5	244	805	228	282	757	1,255	295	1,491	314	59	( <sup>9</sup> )	( <sup>9</sup> )
	With screening or sizing only.....	12	1	141	404	137	221	397	441	270	684	145	27	( <sup>9</sup> )	( <sup>9</sup> )

See footnotes at end of table.



Table 2A.—General Statistics by Regions and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958												1954	
		Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, etc., and purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Quantity of coal <sup>2</sup> (1,000 short tons)	Capital expenditures (\$1,000)	All employees, number	Value added in mining (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Division, State, and Selected Types of Operation—Continued</u>														
	West North Central.....	130	15	1,877	9,700	1,182	2,174	5,607	16,022	8,274	20,072	4,622	4,224	1,949	15,471
	Iowa.....	59	2	421	1,436	395	765	1,321	3,552	1,787	4,779	1,234	560	602	3,556
	Mines only:														
	Strip-pit.....	17	...	50	192	48	92	184	620	213	747	206	86	(12)	(12)
	Underground.....	16	...	81	199	80	144	198	430	49	417	94	62	(12)	(12)
	Mines with preparation plants:														
	With mechanical crushing, screening, or sizing only:														
	Strip-pit.....	14	1	149	682	134	315	596	1,893	1,336	2,865	828	364	12,255	12,351
	Underground:														
	Mechanical crushing <sup>13</sup> .....	7	...	57	148	54	87	143	303	107	396	116	14	12,347	12,120
	Screening or sizing only.....	5	1	84	215	79	127	200	306	82	354	85	34		
	Missouri.....	51	10	1,204	6,757	583	1,097	3,198	9,832	5,540	11,939	2,619	3,433	850	7,644
	Mines only.....	33	...	88	252	82	115	231	747	171	692	(D)	226	(NA)	(NA)
	Mines with preparation plants:														
	Strip-pit.....	11	7	1,008	6,218	402	807	2,707	8,722	5,291	10,809	(D)	3,204	(NA)	(NA)
	Underground <sup>14</sup> .....	7	3	108	287	99	175	260	363	78	438	(D)	3	(NA)	(NA)
	Kansas.....	20	3	252	1,507	204	312	1,088	2,638	947	3,354	769	231	497	4,271
	Mines only.....	13	1	63	364	56	109	303	612	231	781	(D)	62	(NA)	(NA)
	Mines with preparation plants.....	7	2	189	1,143	148	203	785	2,026	716	2,573	590	169	(NA)	(NA)
	South Atlantic.....	2,655	536	75,925	362,347	66,687	109,209	307,820	636,742	384,172	936,350	147,806	84,564	79,156	494,259
	Maryland.....	77	5	540	1,846	504	857	1,730	2,985	2,685	5,210	884	460	371	1,631
	Producing establishments:														
	Mines only:														
	Strip-pit.....	14	...	76	294	73	134	288	305	1,030	1,157	253	178	793	7,623
	Underground.....	50	2	265	799	244	385	734	1,175	258	1,376	270	57	7,278	71,008
	Mines with preparation plants:														
	With mechanical crushing, screening, or sizing only:														
	Strip-pit.....	5	2	91	437	84	150	407	851	668	1,332	315	187	(7)	(7)
	Virginia.....	869	127	13,737	53,097	11,950	18,670	45,004	100,135	80,411	151,825	24,672	28,721	11,720	61,508
	Producing establishments:														
	Mines only:														
	Strip-pit.....	21	2	194	682	174	277	602	1,947	987	2,574	709	360	7,225	73,244
	Underground.....	727	80	6,949	19,114	6,344	9,215	17,705	31,349	15,358	43,251	10,844	3,456	(9)	(9)
	Mines with preparation plants:														
	With mechanical cleaning:														
	Underground.....	20	17	3,877	20,535	3,123	5,241	15,898	40,211	25,485	42,693	7,686	23,003	9,117	95,307
	With mechanical crushing, screening, or sizing only:														
	Underground:														
	Crushing only....	15	5	523	2,591	406	767	2,103	3,889	1,675	5,370	1,238	194	(9)	(9)
	Screening or sizing only.....	22	7	472	1,670	431	627	1,539	2,707	1,648	4,276	924	79	(9)	(9)
	Preparation plants only:														
	Mechanical cleaning....	10	5	257	1,097	206	373	847	4,396	14,861	18,858	3,142	399	76	876
	Mechanical crushing, screening, or sizing only.....	19	...	120	420	104	190	348	913	5,915	6,691	1,493	137	124	1,417
	West Virginia.....	1,704	404	61,634	307,369	54,220	89,663	261,052	533,574	301,069	779,262	124,238	55,381	67,056	431,087
	Producing establishments:														
	Mines only:														
	Strip-pit.....	95	9	715	3,100	628	1,163	2,709	5,029	5,431	9,821	2,490	639	(9)	(9)
	Underground.....	1,087	117	13,153	52,105	11,746	19,233	44,729	82,697	32,341	108,970	24,552	6,068	(9)	(9)
	Auger.....	38	3	225	1,054	200	339	915	2,088	1,623	3,539	1,009	172	(9)	(9)
	Strip-pit and underground.....	6	1	56	122	49	45	109	200	87	278	73	9	(9)	(9)
	Strip-pit and auger..	13	2	177	939	155	276	792	3,051	1,725	4,549	1,142	227	(9)	(9)
	Other combinations...	6	2	175	639	137	273	623	884	751	1,586	325	49	(9)	(9)

See footnotes at end of table.

Table 2A.—General Statistics by Regions and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, etc., and purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Quantity of coal <sup>2</sup> (1,000 short tons)	Capital expenditures (\$1,000)	All employees, number	Value added in mining (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Division, State, and Selected Types of Operation—Continued</u>														
	South Atlantic—Continued														
	West Virginia—Continued														
	Producing establishments—Continued														
	Mines with preparation plants:														
	With mechanical cleaning:														
	Strip-pit.....	4	3	127	511	112	151	400	862	833	1,411	265	284	<sup>9</sup> 1,228	<sup>9</sup> 11,424
	Underground:														
	Coarse sizes only or coarse and fine sizes.....	156	147	33,941	182,497	29,266	47,829	151,452	321,790	134,120	423,239	74,705	32,671	<sup>9</sup> 60,305	<sup>9</sup> 382,015
	Fine sizes only..	9	6	2,565	15,284	2,352	4,326	13,868	28,947	12,630	38,781	6,579	2,796		
	Strip-pit and underground.....	12	12	2,074	11,843	1,946	3,329	10,871	19,954	12,697	28,556	5,328	4,095	<sup>9</sup> 880	<sup>9</sup> 6,735
	Strip-pit and auger	5	3	168	715	157	295	652	2,202	1,675	3,756	868	121	} <sup>9</sup> 3,863	<sup>9</sup> 27,844
	Underground and auger.....	4	4	1,373	7,159	1,258	1,921	6,268	9,117	4,129	12,559	2,850	687		
	Other combinations.	11	4	582	3,059	527	872	2,833	6,056	4,412	8,756	1,735	1,712		
	With mechanical crushing, screening, or sizing only:														
	Strip-pit:														
	With crushing....	19	5	323	1,313	294	432	1,163	3,171	1,995	4,821	1,085	345	( <sup>9</sup> )	( <sup>9</sup> )
	With screening or sizing only.....	9	2	124	684	112	238	597	954	559	1,361	300	152	( <sup>9</sup> )	( <sup>9</sup> )
	Underground:														
	With crushing....	80	47	3,242	14,513	2,971	5,088	13,004	21,355	10,816	30,003	6,214	2,168	( <sup>9</sup> )	( <sup>9</sup> )
	With screening or sizing only.....	27	9	759	3,209	693	1,130	2,898	4,637	2,017	6,334	1,298	320	( <sup>9</sup> )	( <sup>9</sup> )
	Strip-pit and auger	21	11	609	2,880	529	982	2,484	5,988	4,291	9,854	2,469	425	( <sup>9</sup> )	( <sup>9</sup> )
	Preparation plants only:														
	Mechanical cleaning..	15	7	495	2,652	422	677	2,086	7,988	46,387	52,788	8,363	1,587	486	1,590
	Mechanical crushing, screening, or sizing only:														
	With crushing.....	41	3	363	1,471	296	549	1,233	3,529	18,535	21,905	4,756	159	} 294	1,479
	With screening or sizing only.....	10	...												
	Nonproducing establishments.....	15	...	93	382	77	105	322	437	2,434	2,643	542	228		
	East South Central.....	1,730	298	38,511	166,760	34,367	53,624	143,461	302,832	199,417	477,196	84,651	25,053	44,608	268,259
	Kentucky.....	1,306	232	28,397	121,721	25,329	39,842	106,066	227,458	154,316	362,887	67,254	18,887	31,787	193,094
	Producing establishments:														
	Mines only:														
	Strip-pit.....	63	4	444	2,064	407	712	1,866	5,228	3,117	8,104	2,613	241	( <sup>9</sup> )	( <sup>9</sup> )
	Underground.....	936	93	9,241	28,991	8,330	11,983	25,855	48,304	22,927	67,610	17,445	3,621	( <sup>9</sup> )	( <sup>9</sup> )
	Auger only and combinations.....	49	6	1,216	6,460	1,017	1,817	5,219	14,586	5,791	19,430	4,580	947	( <sup>9</sup> )	( <sup>9</sup> )
	Mines with preparation plants:														
	Mechanical cleaning:														
	Strip-pit.....	14	13	1,113	8,066	1,028	2,088	7,320	28,994	12,065	37,099	11,062	3,960	<sup>9</sup> 1,485	<sup>9</sup> 18,154
	Underground:														
	Coarse sizes only, or coarse and fine sizes.....	56	53	9,351	46,878	8,256	13,683	40,438	78,623	33,565	106,889	22,246	5,299	} <sup>9</sup> 28,703	<sup>9</sup> 159,589
	Fine sizes only..	6	4	779	3,177	717	970	2,804	4,945	1,743	6,630	1,827	58		
	Combination.....	8	8	1,184	5,676	1,083	1,692	5,057	11,507	6,153	16,396	3,581	1,264	<sup>9</sup> 1,237	<sup>9</sup> 12,181
	Mechanical crushing, screening, or sizing only:														
	Strip-pit:														
	With crushing....	8	3	143	837	133	229	740	3,275	1,111	3,706	1,119	680	( <sup>9</sup> )	( <sup>9</sup> )
	With screening or sizing only.....	6	1	81	229	47	108	205	819	632	1,434	366	17	( <sup>9</sup> )	( <sup>9</sup> )
	Underground:														
	With crushing....	41	26	2,602	10,735	2,360	3,513	9,440	16,106	10,287	25,827	5,709	566	( <sup>9</sup> )	( <sup>9</sup> )
	With screening or sizing only.....	50	12	1,280	4,424	1,152	1,733	3,693	7,196	2,329	8,922	1,772	603	( <sup>9</sup> )	( <sup>9</sup> )
	Auger and combinations.....	15	3	284	1,063	214	374	820	1,466	3,263	4,292	1,123	437	( <sup>9</sup> )	( <sup>9</sup> )

See footnotes at end of table.



Table 2A.—General Statistics by Regions and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of coal <sup>2</sup> (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Division, State, and Selected Types of Operation—Continued</u>														
	East South Central—Continued														
	Kentucky—Continued														
	Producing establishments—Continued														
	Preparation plants only:														
	Mechanical cleaning..	9	4	371	2,026	310	544	1,693	3,633	38,538	41,722	7,134	449	241	2,332
	Mechanical crushing, screening, or sizing:														
	Crushing only.....	28	...	157	606	143	225	510	1,636	9,552	11,116	2,495	72	106	846
	Screening or sizing only.....	11	1	117	361	100	112	293	590	3,200	3,710	789	80		
	Tennessee.....	277	26	2,661	9,628	2,416	3,509	8,574	16,575	14,724	29,123	5,698	2,176	4,133	20,837
	Mines only (producing establishments only):														
	Strip-pit.....	36	2	229	897	210	360	827	2,232	1,404	3,413	926	223	7370	73,915
	Underground.....	181	10	1,247	3,662	1,132	1,442	3,381	5,129	2,982	7,617	1,991	494	73,554	715,896
	Auger and combination strip-pit and auger...	9	1	75	265	66	79	215	1,200	929	1,825	445	304	7182	7872
	Mines with preparation plants:														
	Strip-pit (mechanical crushing, screening, or sizing only).....	14	2	157	632	138	232	575	1,736	1,104	2,571	711	269	(7)	(7)
	Underground.....	25	10	835	3,759	763	1,222	3,210	5,424	5,161	10,091	1,753	494	(7)	(7)
	Preparation plants only..	8	...	66	203	57	85	166	355	2,598	2,941	623	12	27	154
	Alabama.....	147	40	7,453	35,411	6,622	10,273	28,821	58,799	30,377	85,186	11,699	3,990	8,688	54,328
	Mines only (producing establishments only):														
	Strip-pit.....	18	3	210	959	189	290	871	1,928	1,720	3,517	985	131	(9)	(9)
	Underground.....	63	4	509	1,411	450	586	1,241	2,058	1,086	3,003	682	141	(9)	(9)
	Combination.....	4	2	78	454	78	137	454	784	578	1,311	348	51	9151	9942
	Mines with preparation plants:														
	Mechanical cleaning:														
	Strip-pit.....	11	5	355	1,869	320	563	1,631	3,739	2,002	5,409	1,109	332	9540	93,803
	Underground:														
	Coarse sizes only..	15	11	2,815	14,415	2,542	4,178	12,064	24,611	10,834	34,279	5,302	1,166	97,957	949,292
	Coarse and fine sizes.....	7	6	2,295	11,230	1,967	2,924	8,327	14,435	8,195	20,827	2,875	1,803		
	Mechanical crushing, screening, or sizing only:														
	Strip-pit.....	7	3	232	1,008	220	360	943	2,008	1,512	3,325	595	195	(9)	(9)
	Underground.....	14	5	895	3,755	812	1,177	3,139	8,578	1,933	10,403	1,203	108	(9)	(9)
	West South Central.....	60	14	1,059	5,524	974	1,797	5,002	10,618	4,622	14,413	2,046	827	1,622	11,637
	Arkansas.....	29	4	252	1,219	228	388	1,081	2,081	1,205	3,086	390	200	457	2,783
	Strip-pit mines.....	13	2	126	615	107	175	496	1,381	885	2,177	283	89	103	1,039
	Underground mines.....	16	2	126	604	121	213	585	700	320	909	106	111	354	1,744
	Oklahoma.....	31	10	807	4,305	746	1,409	3,921	8,537	3,417	11,327	1,656	627	1,165	8,854
	Producing establishments:														
	Mines only:														
	Underground.....	11	1	163	737	148	261	654	913	316	1,179	136	50	(15)	(15)
	Mines with preparation plants:														
	Strip-pit.....	8	7	306	1,841	278	562	1,624	5,219	2,583	7,547	1,204	255	15327	154,062
	Underground.....	3	2	297	1,633	281	541	1,556	1,982	321	2,299	245	4	15838	154,792
	Mountain.....	203	47	5,666	28,429	4,946	7,818	23,941	48,051	36,899	77,040	10,527	7,910	7,449	49,936
	Montana.....	18	2	146	687	129	208	600	854	315	1,148	214	21	338	2,906
	Underground mines with mechanical crushing, screening, or sizing only.....	9	2	122	591	108	172	512	817	127	941	166	3	(NA)	(NA)
	Wyoming.....	20	6	506	1,991	399	531	1,506	4,244	1,749	5,619	1,643	374	1,222	8,857
	Strip-pit mines.....	9	3	163	760	116	190	552	2,317	1,122	3,282	1,264	157	207	2,194
	Underground mines.....	11	3	343	1,231	283	341	954	1,927	627	2,337	323	217	1,015	6,666

See footnotes at end of table.



Table 2A.—General Statistics by Regions and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quan- tity of coal <sup>2</sup> (1,000 short tons)	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)							
	<u>Division, State, and Selected Types of Operation—Continued</u>														
	Mountain—Continued														
	Colorado.....	105	21	2,016	9,628	1,800	2,807	8,359	16,348	4,698	19,698	3,210	1,348	2,618	13,480
	Mines only.....	47	1	187	602	169	245	531	1,068	493	1,418	278	143	(16)	(16)
	Mines with preparation plants and preparation plants only..	58	20	1,829	9,026	1,631	2,562	7,828	15,280	4,205	18,280	2,947	1,205	(NA)	(NA)
	Mechanical crushing, screening, or sizing only:														
	Strip-pit.....	5	2	105	533	92	113	469	1,238	368	1,507	364	99	1692	16990
	Underground:														
	With crushing.....	25	14	1,487	7,427	1,324	2,105	6,398	11,970	3,072	14,332	2,105	710	16,526	16,12,490
	With screening, or sizing only <sup>16</sup> .....	24	3	187	858	169	280	763	1,752	496	1,923	346	325		
	New Mexico.....	22	1	156	588	133	225	515	1,184	874	783	123	1,275	159	614
	Mines only.....	12	...	50	166	46	76	153	389	57	434	64	12	(NA)	(NA)
	Mines with preparation plants.....	10	1	106	422	87	149	362	795	817	349	58	1,263	(NA)	(NA)
	Utah.....	35	17	2,824	15,507	2,467	4,025	12,933	25,376	29,254	49,738	5,329	4,892	3,091	24,020
	Underground mines with mechanical cleaning and mechanical cleaning plants only.....	6	6	1,405	7,046	1,244	1,962	6,417	8,762	22,458	28,198	3,772	3,022	(NA)	(NA)
	Underground mines only and underground mines with mechanical crush- ing, screening, or siz- ing only.....	29	11	1,419	8,461	1,223	2,063	6,516	16,614	6,796	21,540	3,071	1,870	(NA)	(NA)
	Pacific (Washington).....	13	5	276	1,360	245	391	1,202	1,609	1,015	2,535	257	89	6700	63,329
	Mines only.....	8	2	70	370	67	136	361	458	209	645	(D)	22	(NA)	(NA)
	Mines with mechanical cleaning plants and mechanical cleaning plants only.....	5	3	206	990	178	255	841	1,151	806	1,890	237	67	(NA)	(NA)
	Alaska.....	10	4	257	2,282	197	471	1,736	5,780	2,062	7,547	761	295	373	5,777
	Mines only.....	4	...	20	164	18	30	144	422	168	527	(D)	63	(NA)	(NA)
	Mines with preparation plants.....	6	4	237	2,118	179	441	1,592	5,358	1,894	7,020	(D)	232	(NA)	(NA)
1212	LIGNITE, TOTAL.....	58	8	510	2,693	437	844	2,261	9,309	3,158	11,035	4,231	1,432	574	9,093
	<u>Region</u>														
	East and South (North Dakota, South Dakota, and Texas)....	46	8	483	2,596	412	803	2,171	9,112	2,878	10,760	4,123	1,230	557	8,986
	<u>Type of Operation</u>														
	Strip pits:														
	Mining operations only...	24	1	60	253	53	111	214	517	289	786	299	20	(NA)	(NA)
	Mines with preparation plants <sup>17</sup> .....	23	7	433	2,402	368	711	2,010	8,715	2,843	10,148	3,908	1,410	(NA)	(NA)
	Underground mines.....	11	...	17	38	16	22	37	77	26	101	24	2	(NA)	(NA)
	BITUMINOUS COAL AND LIGNITE SERVICES, TOTAL <sup>18</sup>	157	21	1,520	7,332	1,385	2,547	6,519	15,114	9,331	21,649	(19)	2,796	1,446	12,517
1213	Coal stripping serv- ices, nec.....	137	19	1,300	6,373	1,180	2,106	5,615	13,409	8,353	19,162	(19)	2,600	1,284	11,190
1214	Coal mining services, nec.....	20	2	220	959	205	441	904	1,705	978	2,487	(19)	196	162	1,327
	<u>Division and State<sup>18</sup></u>														
	Middle Atlantic (Pennsyl- vania), total.....	61	7	565	2,635	517	1,086	2,311	5,394	3,752	7,610	(19)	1,536	722	5,482
1213	Coal stripping services, nec.....	56	5	447	2,028	409	827	1,805	4,485	3,237	6,324	(19)	1,398	(NA)	(NA)
1214	Coal mining services, nec.....	5	2	118	607	108	259	506	909	515	1,286	(19)	138	(NA)	(NA)

See footnotes at end of table.

Table 2A.—General Statistics by Regions and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region, State and type of operation <sup>1</sup>	1958												1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of coal <sup>2</sup> (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining	
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)								
	Division and State <sup>18</sup> —Con.															
1213	East North Central.....	14	1	100	462	88	180	427	862	633	1,449	( <sup>19</sup> )	46	70	573	
	Coal stripping services, nec.....	8	1	61	275	50	102	247	532	460	965	( <sup>19</sup> )	27	(NA)	(NA)	
1213	Ohio.....	11	1	98	453	86	177	419	836	600	1,394	( <sup>19</sup> )	42	67	563	
	Coal stripping services, nec.....	8	1	61	275	50	102	247	532	460	965	( <sup>19</sup> )	27	(NA)	(NA)	
1213	South Atlantic.....	53	8	617	2,962	563	940	2,716	5,733	3,424	8,274	( <sup>19</sup> )	883	385	3,054	
	Coal stripping services, nec.....	47	8	567	2,859	514	862	2,549	5,397	3,202	7,675	( <sup>19</sup> )	838	(NA)	(NA)	
1214	Coal mining services, nec.....	6	...	50	103	49	78	167	336	184	492	( <sup>19</sup> )	28	(NA)	(NA)	
	Virginia.....	4	2	121	700	107	179	591	1,531	986	2,076	( <sup>19</sup> )	441	...	...	
1213	West Virginia.....	46	6	476	2,126	436	723	1,989	4,017	2,269	5,856	( <sup>19</sup> )	430	385	3,054	
	Coal stripping services, nec.....	40	6	426	2,023	387	645	1,822	3,681	2,085	5,364	( <sup>19</sup> )	402	(NA)	(NA)	
1214	Coal mining services, nec.....	6	...	50	103	49	78	167	336	184	492	( <sup>19</sup> )	28	(NA)	(NA)	
	East South Central.....	16	3	173	944	162	249	806	2,140	1,063	2,956	( <sup>19</sup> )	247	105	1,504	
	Kentucky.....	8	3	115	644	108	157	552	1,349	770	1,944	( <sup>19</sup> )	175	67	1,139	

D Withheld to avoid disclosing data for individual companies.

NA Not available. <sup>2</sup>Revised.

<sup>1</sup>General statistics for some States are not shown separately in this table in order to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such States are shown below for 1958, with the number of establishments in each State (and in parentheses the number of employees or employment-size range):

SIC 1211, Bituminous Coal: Arizona, 2 (10-19); Georgia, 5 (14); Idaho, 1 (0-4); Massachusetts (288 central office employees); New York (82 central office employees); Wisconsin (20 central office employees).

SIC 1212, Lignite: North Dakota, 40 (310); South Dakota, 3 (10); Texas, 3 (163); Montana, 12 (27).

SIC 1213, Coal stripping services, nec: Iowa, 3 (0-4); Maryland, 3 (20-49); Virginia, 4 (121); Kentucky, 7 (109); Tennessee, 4 (27); Alabama, 4 (20-49); Oklahoma, 4 (1-19); Montana, 2 (0-4); Wyoming, 2 (20-49).

SIC 1214, Coal mining services, nec: Ohio, 3 (20-49); Indiana, 3 (0-4); Kentucky, 1 (5-9); Montana, 1 (0-4); Wyoming, 1 (0-4).

<sup>2</sup>For all State totals represents net production of coal (the clean-coal equivalent of all coal mined, based on the location of the mine); for all type of operation statistics represents gross shipments of coal.

<sup>3</sup>In addition, net production in other industries amounted to 132 thousand tons for the United States; with 80 thousand tons in Pennsylvania and 38 thousand tons in Ohio.

<sup>4</sup>Figures for the United States total include 288 employees with payroll of \$2,204 thousand at central offices and related facilities in Massachusetts. Figures for Middle Atlantic include 82 employees with payroll of \$792 thousand at central offices and related facilities in New York.

<sup>5</sup>Includes data for employees at central offices and related facilities in Wisconsin.

<sup>6</sup>Includes data for Oregon.

<sup>7</sup>Figures for mines with mechanical crushing, screening, or sizing only are included with those for mines only.

<sup>8</sup>Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeds capital expenditures.

<sup>9</sup>Figures for mines only and for mines with mechanical crushing, screening, or sizing only are included with those for similar mines with mechanical cleaning.

<sup>10</sup>Includes data for nonproducing establishments.

<sup>11</sup>In addition, 20 underground mines only were reported with total employment of 136.

<sup>12</sup>Figures for mines only are included with figures for mines with mechanical crushing, screening, or sizing only.

<sup>13</sup>For 1958, includes data for 1 combination strip pit and underground mine.

<sup>14</sup>Includes data for one separately operated screening and sizing plant.

<sup>15</sup>Figures for mines only are included with those for mines with preparation plants.

<sup>16</sup>For 1958, includes figures for one underground mine with mechanical cleaning. For 1954, figures for mines only and figures for mines with mechanical cleaning plants are included with those for mines with mechanical crushing, screening, or sizing plants only.

<sup>17</sup>Represents mines with mechanical crushing, screening, or sizing only.

<sup>18</sup>Service companies were permitted to prepare one report for all mining services performed in the United States. The totals shown for number of establishments in this table, and all figures shown for number of establishments in other tables of this report except table 2B, are the counts of these reports. However, these reports contained data for the total receipts for services, total employment (for 1954, man-hours), and total tonnage of raw coal mined by county. All other State information for these industries in this table was obtained by allocating the totals reported for each establishment on the basis of the reported county data. The number of establishments shown by State represents the number of operations in separate counties.

<sup>19</sup>Coal mined by the Bituminous Coal and Lignite Services Industries is included in the production shown for the Bituminous Coal and Lignite Industries.



## BITUMINOUS COAL AND LIGNITE MINING

12A-15

Table 2B.—General Statistics for the Bituminous Coal and Lignite Mining Industries for Selected Counties: 1958 and 1954

Industry code, industry, division, State, and county	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Net production of coal <sup>1</sup> (1,000 short tons)	Capital expendi- tures	All em- ployees, number	Value added in mining
	Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
12—Bituminous coal and lignite mining, total.....	6,930	1,371	<sup>2</sup> 187,706	<sup>2</sup> 912,784	163,533	267,699	760,364	1,609,964	1,001,592	2,423,361	416,915	188,195	218,833	1,418,384
1211—Bituminous coal.....	6,715	1,342	<sup>2</sup> 185,676	<sup>2</sup> 902,759	161,711	264,308	751,584	1,585,541	989,103	2,390,677	412,684	183,967	216,813	1,396,774
1212—Lignite....	58	8	510	2,693	437	844	2,261	9,309	3,158	11,035	4,231	1,432	574	9,093
1213—Coal strip- ping services, nec <sup>3</sup> .....	137	19	1,300	6,373	1,180	2,106	5,615	13,409	8,353	19,162	( <sup>4</sup> )	2,600	1,284	11,190
1214—Coal mining services, nec <sup>3</sup> ..	20	2	220	959	205	441	904	1,705	978	2,487	( <sup>4</sup> )	196	162	1,327
<u>Division, State, and County</u>														
Middle Atlantic (Pennsylvania)....	1,373	233	<sup>5</sup> 37,438	<sup>5</sup> 186,121	32,264	52,239	150,420	291,778	199,271	457,632	68,571	33,417	51,219	300,452
Bituminous coal.....	1,312	226	<sup>5</sup> 36,873	<sup>5</sup> 183,486	31,747	51,153	148,109	286,384	195,519	450,022	68,571	31,881	50,497	294,970
Coal strip- ping serv- ices, nec <sup>3</sup> ..	56	5	447	2,028	409	827	1,805	4,485	3,237	6,324	( <sup>4</sup> )	1,398	722	5,482
Coal mining services, nec <sup>3</sup> .....	5	2	118	607	108	259	506	909	515	1,286	( <sup>4</sup> )	138		
Allegheny <sup>6</sup> .....	65	22	2,957	17,804	2,330	4,118	12,905	26,655	32,388	57,419	5,160	1,624	4,700	31,246
Armstrong <sup>7</sup> .....	77	8	951	4,467	869	1,457	4,004	8,163	6,194	13,044	2,296	1,313	973	5,461
Beaver <sup>6</sup> .....	12	1	103	406	72	140	292	631	1,488	2,047	230	72	219	1,510
Butler, total..	66	15	724	2,973	584	1,134	2,381	6,472	8,264	13,181	2,013	1,555	(NA)	(NA)
Bituminous coal.....	59	14	674	2,764	548	1,061	2,236	6,063	7,551	12,435	2,013	1,179	651	4,422
Bituminous coal services	7	1	50	209	36	73	145	409	713	746	( <sup>4</sup> )	376	(NA)	(NA)
Cambria <sup>8</sup> .....	161	29	6,745	32,216	5,861	8,732	26,153	40,729	16,836	54,102	8,514	3,463	<sup>9</sup> 9,178	<sup>9</sup> 42,940
Centre <sup>8</sup> .....	41	7	390	1,482	355	643	1,324	2,715	2,232	4,250	873	697	379	2,297
Clarion <sup>7</sup> .....	48	15	753	3,148	684	1,372	2,893	6,895	6,537	11,577	2,813	1,855	<sup>9</sup> 696	<sup>9</sup> 5,026
Clearfield, total.....	189	32	2,545	9,387	2,255	4,004	8,551	17,411	12,955	27,039	5,397	3,327	2,596	13,704
Bituminous coal.....	176	31	2,418	8,766	2,138	3,708	8,058	16,366	12,150	25,558	5,397	2,958	2,334	12,191
Bituminous coal services	13	1	127	621	117	296	493	1,045	805	1,481	( <sup>4</sup> )	369	262	1,513
Clinton <sup>8</sup> .....	14	3	135	652	124	287	582	1,602	1,382	2,854	616	130	176	1,275
Elk <sup>8</sup> .....	25	2	197	766	189	294	753	1,438	626	1,960	426	104	<sup>9</sup> 226	<sup>9</sup> 1,245
Fayette <sup>8</sup> .....	65	11	2,050	11,112	1,773	2,772	8,678	17,327	28,054	44,605	3,000	776	5,999	36,605
Greene, total..	20	10	5,601	28,870	4,989	7,506	23,486	47,378	15,771	60,791	9,749	2,358	(NA)	(NA)
Bituminous coal.....	17	9	5,514	28,486	4,908	7,356	23,127	46,807	15,510	59,968	9,749	2,349	7,110	39,914
Coal mining services, nec.....	3	1	87	384	81	150	359	571	261	823	( <sup>4</sup> )	9	(NA)	(NA)
Indiana <sup>8</sup> .....	107	24	3,140	17,037	2,684	4,626	13,965	22,215	19,672	38,587	5,776	3,300	3,010	18,517
Jefferson <sup>8</sup> .....	67	3	792	2,570	672	886	2,203	4,492	1,770	5,822	1,344	440	<sup>9</sup> 981	<sup>9</sup> 4,772
Lawrence <sup>7</sup> .....	21	27	219	1,214	201	449	1,140	3,341	2,640	5,294	1,058	687	138	2,077
Lycoming.....	6	1	56	208	51	84	174	349	145	462	109	32	24	103
Mercer <sup>8</sup> .....	14	4	199	1,013	177	390	916	2,760	1,592	3,900	728	452	<sup>9</sup> 224	<sup>9</sup> 1,932
Somerset <sup>8</sup> .....	172	13	1,771	7,193	1,588	2,281	6,555	10,703	7,278	17,172	2,834	809	<sup>9</sup> 2,467	<sup>9</sup> 10,080
Tioga <sup>8</sup> .....	8	1	64	274	51	100	191	787	1,318	1,982	290	123	<sup>9</sup> 56	<sup>9</sup> 285
Venango <sup>7</sup> .....	12	1	140	678	130	274	613	1,270	1,701	2,722	614	249	<sup>9</sup> 125	<sup>9</sup> 1,057
Washington <sup>8</sup> ...	56	15	5,439	29,230	4,641	7,354	23,058	49,128	23,671	64,923	10,587	7,876	8,385	58,205
Westmoreland <sup>7</sup> ..	85	11	1,936	10,233	1,730	2,932	8,786	17,300	5,772	21,251	3,651	1,821	<sup>9</sup> 2,004	<sup>9</sup> 12,984
East North Central.	626	202	25,301	143,411	21,651	38,322	116,869	284,145	159,818	414,498	92,204	29,465	30,902	259,486
Bituminous coal.....	612	201	25,201	142,949	21,563	38,142	116,442	283,283	159,185	413,049	92,204	29,419	30,832	258,913
Bituminous coal services	14	1	100	462	88	180	427	862	633	1,449	( <sup>4</sup> )	46	70	573

See footnotes at end of table.

Table 2B.—General Statistics for the Bituminous Coal and Lignite Mining Industries for Selected Counties: 1958 and 1954—Continued

Industry code, industry, division, State, and county	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Net production of coal <sup>1</sup>	Capital expendi- tures	All em- ployees, number	Value added in mining
	Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
Division, State, and County—Con.														
East North Central—Con.														
Ohio.....	394	97	10,036	53,872	8,368	14,538	41,836	100,958	77,769	166,657	32,919	12,070	11,199	90,727
Bituminous coal.....	383	96	9,938	53,419	8,282	14,361	41,417	100,122	77,169	165,263	32,919	12,028	11,132	90,164
Bituminous coal services	11	1	98	453	86	177	419	836	600	1,394	( <sup>4</sup> )	42	67	563
Athens.....	18	1	274	1,066	252	398	993	1,902	2,060	3,890	400	72	469	2,422
Belmont.....	47	15	1,948	10,762	1,768	3,063	9,712	19,465	8,857	27,443	5,900	879	2,886	18,557
Carroll.....	8	2	143	542	130	221	463	849	(D)	1,167	312	(D)	<sup>9</sup> 190	<sup>9</sup> 1,078
Columbiana <sup>7</sup> ....	37	6	394	1,957	351	687	1,732	3,884	2,512	5,681	1,425	715	389	3,101
Coshocton.....	22	9	395	1,735	363	586	1,562	4,168	1,722	5,712	1,432	178	320	2,535
Gallia.....	21	3	244	954	205	367	864	1,981	2,002	3,681	799	302	253	1,951
Guernsey.....	11	1	109	425	100	166	375	675	345	923	276	97	<sup>9</sup> 135	<sup>9</sup> 853
Harrison <sup>6</sup> .....	18	10	2,099	11,857	1,856	2,921	9,888	28,176	28,315	53,958	7,346	2,533	<sup>9</sup> 1,578	<sup>9</sup> 18,549
Jackson.....	15	...	107	311	99	183	293	806	588	1,297	288	97	145	1,605
Jefferson.....	41	11	982	4,854	858	1,478	4,052	11,584	5,466	15,997	3,879	1,053	<sup>9</sup> 1,421	<sup>9</sup> 12,408
Lawrence.....	5	1	95	( <sup>10</sup> )	94	( <sup>10</sup> )	( <sup>10</sup> )	( <sup>10</sup> )	( <sup>10</sup> )	( <sup>10</sup> )	372	( <sup>10</sup> )	<sup>9</sup> 112	<sup>9</sup> 1,016
Mahoning.....	12	4	204	1,212	164	366	912	2,331	2,344	4,507	766	168	150	1,856
Meigs.....	8	2	128	454	123	205	428	671	1,672	1,800	532	543	266	2,200
Morgan.....	5	2	263	<sup>10</sup> 2,019	221	<sup>10</sup> 554	<sup>10</sup> 1,863	<sup>10</sup> 5,787	<sup>10</sup> 2,845	<sup>10</sup> 8,380	2,026	<sup>10</sup> 252	88	2,482
Muskingum.....	12	3	180	910	154	312	793	1,483	1,020	2,210	702	293	284	2,373
Noble.....	6	2	135	794	115	198	665	1,608	1,227	2,577	1,038	258	268	2,088
Perry <sup>5</sup> .....	21	5	461	2,512	415	638	2,319	5,321	(D)	7,346	1,848	(D)	609	5,541
Stark.....	20	5	275	1,025	196	397	835	1,985	1,013	2,808	697	190	250	1,736
Tuscarawas <sup>8</sup> ....	46	12	754	3,792	657	1,270	3,097	5,935	3,167	8,619	2,225	483	901	6,564
Vinton.....	9	1	119	351	114	206	338	592	344	847	188	89	109	604
Indiana.....	91	34	4,105	22,858	3,412	5,726	18,218	44,289	21,570	61,060	15,116	4,799	4,747	39,598
Clay.....	12	3	233	1,253	193	311	1,034	2,907	834	3,678	768	63	345	3,063
Knox.....	7	5	437	2,331	389	616	1,970	3,861	1,332	4,909	1,283	284	494	3,788
Pike <sup>6</sup> .....	9	3	551	3,582	464	843	2,935	8,035	2,125	9,947	2,616	213	525	6,282
Sullivan.....	7	3	340	1,803	288	460	1,484	3,105	1,005	4,046	980	64	486	3,309
Vigo.....	10	5	964	5,618	855	1,536	4,833	8,690	3,383	11,805	2,954	268	1,006	7,263
Warrick <sup>6</sup> .....	17	5	627	3,421	570	965	2,984	12,035	7,625	16,045	4,438	3,615	843	9,526
Illinois.....	141	71	11,140	66,595	9,871	18,058	56,815	138,898	60,479	186,781	44,169	12,596	14,956	129,161
Fulton.....	12	7	805	5,017	736	1,388	4,576	15,709	5,447	19,506	4,643	1,650	1,025	16,816
Peoria.....	8	2	87	468	69	121	391	1,247	366	1,600	324	13	141	1,514
Vermilion.....	7	2	193	1,244	179	330	1,122	3,521	1,386	4,784	1,090	123	190	2,574
Williamson.....	29	13	1,618	9,675	1,446	2,651	8,533	19,512	9,382	25,693	6,222	3,201	2,048	17,674
West North Central (Bituminous coal and lignite mining).....	176	21	2,201	(D)	1,466	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Bituminous coal.....	130	15	1,877	9,700	1,182	2,174	5,607	16,022	8,274	20,072	4,622	4,224	1,949	15,471
Iowa.....	62	2	425	1,453	399	771	1,338	3,592	1,841	4,867	1,234	566	(NA)	(NA)
Bituminous coal.....	59	2	421	1,436	395	765	1,321	3,552	1,787	4,779	1,234	560	602	3,556
Appanoose.....	12	1	122	327	117	201	312	430	489	845	118	74	191	563
Marion <sup>8</sup> .....	19	1	158	670	147	327	590	1,890	947	2,590	737	247	196	1,684
Monroe.....	10	...	53	142	51	82	139	355	44	325	91	74	75	320
Kansas.....	20	3	252	1,507	204	312	1,088	2,638	947	3,354	769	231	497	4,271
Crawford.....	7	2	125	781	83	142	419	781	269	999	227	51	179	1,978
South Atlantic.....	2,708	544	76,542	365,309	67,250	110,149	310,536	642,475	387,596	944,624	149,806	85,447	79,541	497,313
Bituminous coal.....	2,655	536	75,925	362,347	66,687	109,209	307,820	636,742	384,172	936,350	149,806	84,564	79,156	494,259
Bituminous coal services	53	8	617	2,962	563	940	2,716	5,733	3,424	8,274	( <sup>4</sup> )	883	385	3,054
Maryland.....	80	5	560	1,982	524	895	1,866	3,170	2,854	5,552	884	472	<sup>9</sup> 371	<sup>9</sup> 1,631
Allegany <sup>8</sup> .....	52	...	211	794	202	340	764	1,480	1,450	2,663	272	267	171	757
Garrett <sup>8</sup> .....	28	5	349	1,188	322	555	1,102	1,690	1,404	2,889	612	205	200	874

See footnotes at end of table.



Table 2B.—General Statistics for the Bituminous Coal and Lignite Mining Industries for Selected Counties: 1958 and 1954—Continued

Industry code, industry, division, State, and county	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Net production of coal <sup>1</sup>  (1,000 short tons)	Capital expendi- tures	All em- ployees, number	Value added in mining
	Total	With 20 or more em- ployees	Number	Payroll  (\$1,000)	Number	Man-hours  (1,000)	Wages  (\$1,000)							
Division, State, and County—Con.														
South Atlantic— Continued														
Virginia.....	873	129	13,858	53,797	12,057	18,849	45,595	101,666	81,397	153,901	24,672	29,162	11,720	61,508
Bituminous coal.....	869	127	13,737	53,097	11,950	18,670	45,004	100,135	80,411	151,825	24,672	28,721	11,720	61,508
Coal strip- ping serv- ices, nec...	4	2	121	700	107	179	591	1,531	986	2,076	( <sup>4</sup> )	441	...	...
Buchanan <sup>8</sup> .....	456	66	6,149	21,341	5,558	8,474	19,389	39,475	33,698	69,088	9,428	4,085	4,013	19,788
Dickenson.....	93	14	1,831	7,592	1,617	2,549	6,475	25,258	22,534	26,524	4,672	21,268	1,793	11,062
Lee.....	44	3	412	1,187	389	466	1,107	1,434	1,244	2,561	364	117	667	3,018
Russell.....	37	9	1,290	6,421	1,042	1,810	5,063	9,321	5,174	13,324	2,695	1,171	498	2,421
Tazewell.....	69	9	983	4,132	743	1,114	2,614	4,651	4,548	8,921	1,184	278	1,686	9,882
Wise <sup>8</sup> .....	169	28	3,059	12,485	2,683	4,398	10,889	21,342	14,105	33,231	6,272	2,216	2,696	15,235
West Virginia....	1,750	410	62,110	309,495	54,656	90,386	263,041	537,591	303,338	785,118	124,238	55,811	61,441	434,141
Bituminous coal.....	1,704	404	61,634	307,369	54,220	89,663	261,052	533,574	301,069	779,262	124,238	55,381	67,056	431,087
Bituminous coal serv- ices.....	46	6	476	2,126	436	723	1,989	4,017	2,269	5,856	( <sup>4</sup> )	430	385	3,054
Barbour.....	41	11	1,083	5,173	964	1,538	4,269	10,342	5,790	15,103	3,002	1,029	<sup>9</sup> 1,126	<sup>9</sup> 8,248
Boone <sup>8</sup> .....	55	14	2,441	12,875	2,187	3,639	11,454	21,154	11,765	30,398	5,309	2,521	<sup>9</sup> 3,132	<sup>9</sup> 20,915
Braxton.....	6	3	152	563	146	229	548	673	852	1,042	204	483	61	168
Brooke.....	10	5	470	1,891	417	612	1,450	2,892	749	3,479	707	162	<sup>9</sup> 672	<sup>9</sup> 4,198
Fayette, total.	155	22	3,631	17,785	3,243	5,022	15,351	28,150	15,252	41,934	5,000	1,468	4,611	24,992
Bituminous coal.....	151	21	3,568	17,529	3,190	4,934	15,135	27,640	14,957	41,165	5,000	1,432	4,565	24,954
Coal strip- ping serv- ices, nec...	4	1	63	256	53	88	216	510	295	769	( <sup>4</sup> )	36	46	38
Gilmer.....	11	4	183	673	168	242	602	1,774	1,484	1,568	435	1,690	59	155
Grant <sup>8</sup> .....	8	2	114	327	103	148	293	475	139	602	110	12	132	283
Greenbrier....	106	7	776	2,998	697	1,088	2,604	5,052	4,106	8,718	1,081	440	713	4,023
Harrison, total.	131	23	2,566	10,871	2,242	3,453	9,178	23,879	14,463	36,224	7,033	2,118	2,469	21,192
Bituminous coal.....	119	23	2,480	10,583	2,161	3,333	8,909	22,984	14,036	35,049	7,033	1,971	2,454	21,139
Coal strip- ping serv- ices, nec...	12	...	86	288	81	120	269	895	427	1,175	( <sup>4</sup> )	147	15	53
Kanawha <sup>7</sup> .....	97	32	4,070	21,898	3,534	6,065	18,124	34,995	16,223	48,571	9,648	2,647	4,133	28,237
Lewis <sup>6</sup> .....	7	3	221	907	191	377	796	2,073	1,413	3,329	775	157	153	1,147
Logan <sup>6</sup> .....	67	30	8,050	44,584	6,369	11,191	35,281	66,298	26,296	87,791	16,667	4,803	7,403	54,328
McDowell <sup>8</sup> .....	264	45	9,230	47,846	8,285	14,751	40,692	89,521	62,391	144,294	16,262	7,618	11,814	71,810
Marion <sup>6</sup> .....	24	10	3,709	19,652	3,249	5,114	16,318	43,806	17,510	53,556	8,452	7,760	<sup>9</sup> 4,088	<sup>9</sup> 32,759
Mercer, total..	58	8	829	3,248	755	1,012	2,837	4,437	4,621	7,915	934	1,143	1,351	6,467
Bituminous coal.....	53	6	763	2,971	695	920	2,599	3,934	4,201	7,064	934	1,071	1,252	5,959
Bituminous coal serv- ices.....	5	2	66	277	60	92	238	503	420	851	( <sup>4</sup> )	72	99	508
Mineral <sup>8</sup> .....	8	1	76	322	73	129	310	325	573	838	78	60	56	231
Mingo <sup>8</sup> .....	59	14	2,451	12,746	2,245	3,680	11,339	24,316	9,789	31,423	5,989	2,682	3,686	24,126
Monongalia....	85	20	2,574	13,278	2,233	3,643	11,257	28,979	22,553	50,853	7,694	679	2,717	22,000
Nicholas <sup>8</sup> .....	93	23	2,956	14,212	2,737	4,598	12,767	22,150	13,075	33,554	5,124	1,671	2,562	16,488
Preston <sup>8</sup> .....	92	26	1,495	4,257	1,371	2,074	3,943	6,876	7,386	13,804	2,356	458	<sup>9</sup> 1,510	<sup>9</sup> 5,693
Raleigh <sup>7</sup> .....	153	41	5,639	25,878	4,960	7,603	22,207	41,193	17,420	53,557	8,402	5,056	5,171	28,076
Randolph.....	26	7	713	3,105	627	961	2,640	4,007	1,954	5,671	914	290	<sup>9</sup> 872	<sup>9</sup> 4,305
Taylor <sup>8</sup> .....	16	...	135	342	128	152	318	756	1,453	2,179	295	30	<sup>9</sup> 214	<sup>9</sup> 967
Upshur <sup>8</sup> .....	37	11	569	2,417	488	851	2,063	3,966	4,147	7,797	1,244	316	<sup>9</sup> 595	<sup>9</sup> 3,353
Webster <sup>8</sup> .....	21	7	592	2,509	557	792	2,172	3,431	1,918	4,885	757	464	<sup>9</sup> 514	<sup>9</sup> 2,714
Wyoming <sup>8</sup> .....	60	24	4,870	26,421	4,456	7,450	23,440	49,276	19,406	63,428	10,245	5,254	<sup>9</sup> 5,050	<sup>9</sup> 35,308

See footnotes at end of table.

Table 2B.—General Statistics for the Bituminous Coal and Lignite Mining Industries for Selected Counties: 1958 and 1954—Continued

Industry code, industry, division, State, and county	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Net production of coal <sup>1</sup>	Capital expendi- tures	All em- ployees, number	Value added in mining
	Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
								(\$1,000)	(\$1,000)	(\$1,000)	(1,000 short tons)	(\$1,000)		(\$1,000)
Division, State, and County—Con.														
East South Central.	1,746	301	38,684	167,704	34,529	53,873	144,267	304,972	200,480	480,152	84,651	25,300	44,713	269,763
Bituminous coal.....	1,730	298	38,511	166,760	34,367	53,624	143,461	302,832	199,417	477,196	84,651	25,053	44,608	268,259
Bituminous coal serv- ices.....	16	4	173	944	162	249	806	2,140	1,063	2,956	( <sup>4</sup> )	247	105	1,504
Kentucky.....	1,314	234	28,512	122,365	25,437	39,999	106,618	228,807	155,086	364,831	67,254	19,062	31,854	194,233
Bituminous coal.....	1,306	232	28,397	121,721	25,329	39,842	106,066	227,458	154,316	362,887	67,254	18,887	31,787	193,094
Bituminous coal serv- ices.....	8	2	115	644	108	157	552	1,349	770	1,944	( <sup>4</sup> )	175	67	1,139
Bell.....	58	9	669	2,722	606	1,002	2,505	5,281	2,918	7,301	1,424	898	1,013	5,078
Butler.....	8	2	68	203	67	123	201	664	138	770	170	32	70	334
Carter.....	5	2	85	215	81	126	210	490	188	572	175	106	60	368
Clay.....	47	21	1,130	2,798	1,071	1,611	2,573	4,707	6,304	10,507	1,835	504	733	2,311
Davies.....	7	1	115	666	112	250	598	1,957	1,358	3,070	903	245	169	806
Floyd.....	210	18	3,047	12,573	2,711	3,976	10,960	22,577	22,592	44,044	4,838	1,125	3,271	21,922
Harlan.....	109	25	4,055	19,906	3,489	5,861	16,562	32,567	14,781	44,826	7,001	2,522	7,185	38,991
Henderson.....	7	1	107	11534	94	11253	11442	111,109	11374	111,406	203	1177	181	671
Hopkins <sup>8</sup> .....	44	26	3,390	16,927	2,973	4,928	14,484	34,716	13,357	46,459	11,692	1,614	93,359	930,327
Jackson.....	9	2	101	(11)	84	(11)	(11)	(11)	(11)	(11)	152	(11)	143	333
Johnson.....	41	1	256	644	221	266	494	1,112	1,169	2,107	326	174	273	1,056
Knott.....	52	7	437	915	371	518	791	1,837	1,459	3,013	820	283	9247	91,779
Knox.....	18	...	115	299	107	129	285	442	1,161	1,534	89	69	95	418
Laurel.....	10	1	115	283	77	152	256	537	649	1,182	243	4	95	311
Leslie.....	29	13	1,358	3,527	1,323	1,914	3,361	6,416	3,000	8,966	2,108	450	1,397	7,663
Letcher <sup>7</sup> .....	153	19	2,311	10,592	1,991	3,212	8,593	19,817	17,057	35,734	4,868	1,140	2,406	15,072
McCreary.....	7	3	256	886	255	456	882	1,289	761	1,951	472	99	170	846
Muhlenberg <sup>8</sup> .....	29	14	1,690	9,117	1,570	2,605	8,258	24,837	9,686	31,016	9,085	3,507	91,639	911,957
Ohio.....	11	2	288	1,809	258	491	1,608	7,933	2,165	9,498	2,793	600	352	3,880
Perry.....	97	26	2,920	12,251	2,644	4,032	11,100	18,589	13,167	30,619	6,348	1,137	2,657	14,860
Pike, total....	264	26	4,015	16,646	3,578	5,195	14,532	25,896	15,725	38,881	7,173	2,740	(NA)	(NA)
Bituminous coal.....	261	25	3,961	16,303	3,526	5,123	14,226	25,527	15,163	38,034	7,173	2,656	4,064	22,138
Coal stripping services, nec	3	1	54	343	52	72	306	369	562	847	( <sup>4</sup> )	84	(NA)	(NA)
Webster.....	8	2	170	1,172	160	346	1,109	2,608	3,166	5,375	1,223	399	(NA)	(NA)
Tennessee.....	281	27	2,688	9,733	2,443	3,544	8,679	16,820	14,834	29,448	5,698	2,206	4,142	20,892
Anderson <sup>8</sup> .....	25	5	432	2,269	414	727	2,133	3,507	1,720	5,048	1,175	179	451	1,823
Campbell <sup>8</sup> .....	54	2	355	823	311	384	720	1,704	2,854	4,324	663	234	9742	93,264
Claiborne <sup>8</sup> .....	17	4	165	543	158	206	497	995	1,802	2,348	258	449	255	1,197
Grundy.....	26	1	316	1,259	275	419	1,082	1,708	2,411	3,703	599	416	344	1,477
Marion <sup>8</sup> .....	49	8	542	1,896	505	640	1,685	2,946	2,670	5,527	887	89	91,160	95,729
Morgan.....	18	...	110	428	106	168	417	1,373	932	2,104	485	201	222	1,611
Rhea.....	6	1	66	248	57	93	200	348	270	588	157	30	26	125
Scott.....	23	5	302	853	283	431	792	1,858	1,096	2,504	626	450	209	1,299
Alabama.....	151	40	7,484	35,606	6,649	10,330	28,970	59,345	30,560	85,873	11,699	4,032	8,717	54,638
Bibb and Blount	13	2	221	778	204	297	714	1,132	1,398	2,366	334	164	159	965
Jefferson <sup>8</sup> .....	53	18	5,092	24,937	4,445	6,646	19,277	37,179	19,404	53,991	7,306	2,592	96,490	939,078
Marion.....	29	6	418	1,292	378	618	1,093	2,028	1,974	3,857	386	145	276	1,528
Shelby.....	12	3	150	316	135	218	283	366	105	461	79	10	134	409
Tuscaloosa <sup>8</sup> .....	10	3	220	1,165	208	339	1,075	2,598	1,185	3,480	697	303	308	1,682
Walker <sup>8</sup> .....	31	8	1,355	7,011	1,252	2,161	6,439	15,838	6,386	21,436	2,832	788	91,274	910,517
West South Central (Bituminous coal and lignite mining)	67	16	1,241	(D)	1,123	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Bituminous coal	60	14	1,059	5,524	974	1,797	5,002	10,618	4,622	14,413	2,046	827	1,622	11,637
Arkansas (Bitumi- ous coal only).. <sup>9</sup>	29	4	252	1,219	228	388	1,081	2,081	1,205	3,086	390	200	457	2,783
Johnson.....	12	2	104	443	91	148	375	1,104	644	1,685	214	63	9147	91,121
Sebastian <sup>7</sup> .....	14	2	109	560	102	170	508	645	337	876	97	106	9246	91,309

See footnotes at end of table.



Table 2B.—General Statistics for the Bituminous Coal and Lignite Mining Industries for Selected Counties: 1958 and 1954—Continued

Industry code, industry, division, State, and county	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Net production of coal <sup>1</sup>  (1,000 short tons)	Capital expendi- tures	All em- ployees, number	Value added in mining
	Total	With 20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
Division, State, and County—Con.														
Oklahoma (Bitumi- nous coal only).. <sup>1</sup>	31	10	807	4,305	746	1,409	3,921	8,537	3,417	11,327	1,656	627	1,165	8,854
Haskell <sup>8</sup>	9	2	78	385	71	125	354	1,396	861	2,198	249	59	261	9,205
Le Flore.....	9	2	224	1,114	202	360	964	1,971	762	2,644	314	89	117	1,369
Mountain (Bitumi- nous coal and lignite mining)....	221	48	5,735	28,744	5,005	7,915	24,190	48,791	37,443	78,064	10,635	8,170	(NA)	(NA)
Bituminous coal.....	203	47	5,666	28,429	4,946	7,818	23,941	48,051	36,899	77,040	10,527	7,910	7,449	49,936
Montana (Bitumi- nous coal and lignite mining).. <sup>1</sup>	33	2	177	804	157	258	705	1,106	624	1,502	322	228	415	3,822
Bituminous coal.....	18	2	146	687	129	208	600	854	315	1,148	214	21	338	2,906
Musselshell.....	8	2	124	592	110	174	515	817	128	940	168	5	284	1,501
Wyoming.....	23	7	538	2,157	425	566	1,624	4,691	1,949	6,219	1,643	421	91,222	98,857
Sheridan <sup>8</sup> .....	7	1	87	370	59	74	265	1,018	449	1,365	(D)	102	115	804
Colorado.....	105	21	2,016	9,628	1,800	2,807	8,359	16,348	4,698	19,698	3,210	1,348	2,618	13,480
Delta.....	8	1	51	156	45	49	143	265	114	297	59	82	53	194
Fremont.....	17	1	96	308	87	106	286	739	308	937	251	110	77	664
Gunnison and Pitkin.....	12	7	405	1,824	346	601	1,582	3,396	948	4,067	575	277	(NA)	(NA)
Routt.....	8	2	140	724	126	173	648	1,507	581	1,778	398	310	278	1,624
Weld.....	6	5	209	1,252	189	381	1,139	2,391	450	2,720	580	121	361	2,260
New Mexico.....	22	1	156	588	133	225	515	1,184	874	783	(D)	1,275	159	614
Colfax.....	8	1	88	375	75	128	332	718	805	261	42	1,262	63	351
Utah.....	35	17	2,830	15,539	2,472	4,037	12,959	25,417	29,289	49,808	5,329	4,898	3,091	24,020
Carbon.....	20	14	2,130	11,522	1,929	3,135	10,188	16,724	27,315	39,618	4,092	4,421	2,342	18,169
Alaska.....	10	4	257	2,282	197	471	1,736	5,780	2,062	7,547	765	295	373	5,777
Third Judicial Division.....	5	2	124	907	89	177	604	2,820	1,542	4,132	327	230	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>Represents the clean-coal equivalent of all coal mined, based on the location of the mine. Includes small tonnages of coal produced in other industries.<sup>2</sup>Includes figures for central offices and related facilities in Massachusetts.<sup>3</sup>Service companies were permitted to prepare one report for all mining services performed. The totals shown for number of establishments in this table, and all figures shown for number of establishments in other tables of this report, are the counts of these reports. However, these reports contained data for the total receipts for services, total employment (for 1954, man-hours), and tonnage of raw coal mined by county. All other county information for these industries in this table was obtained by allocating the totals reported for each establishment on the basis of the reported county data. The number of establishments shown by county represents the number of operations in separate counties.<sup>4</sup>Coal mined by Bituminous Coal and Lignite Services Industries is included in the production shown for the Bituminous Coal and Lignite Industries.<sup>5</sup>Includes figures for central offices and related facilities in New York.<sup>6</sup>Represents establishments in the Bituminous Coal and the Coal Mining Services, NEC Industries.<sup>7</sup>Represents establishments in the Bituminous Coal; the Coal Stripping Services, NEC; and the Coal Mining Services, NEC Industries.<sup>8</sup>Represents establishments in the Bituminous Coal and the Coal Stripping Services, NEC Industries.<sup>9</sup>Represents the Bituminous Coal Industry only.<sup>10</sup>Figures for Lawrence County are combined with those for Morgan County.<sup>11</sup>Figures for Jackson County are combined with those for Henderson County.

Table 3A.--Detailed Statistics for Industries, Selected

Item	Bituminous coal and lignite mining industries (United States), total	1211--Bituminous coal industry				
		United States and Alaska, total	United States	Middle Atlantic (Pennsylvania)	East North Central	
					Division, total	Ohio
1 Number of establishments, total.....	6,930	6,725	6,715	1,312	612	383
2 With 0-19 employees.....	5,559	5,379	5,373	1,086	411	287
3 With 20-99 employees.....	957	934	930	154	132	77
4 With 100 employees and over.....	414	412	412	72	69	19
5 Including mines, culm banks, and dredges.....	6,561	6,513	6,503	1,279	596	373
6 Including preparation plants.....	1,831	1,813	1,807	389	288	156
7 Net production of coal, total.....1,000 short tons..	416,915	413,449	412,684	68,571	92,204	32,919
8 From underground operations.....do....	290,468	290,695	290,444	48,135	37,515	9,255
9 From strip-pit operations.....do....	118,997	115,304	114,790	20,224	53,581	22,569
10 From auger operations.....do....	7,197	7,197	7,197	212	1,095	1,095
11 From culm-bank and dredge operations.....do....	253	253	253	(2)	...	...
12 Net shipments of coal, total.....do....	420,413	416,945	416,183	69,537	93,288	33,932
13 Raw coal sold for use without preparation.....do....	57,373	416,945	57,038	13,323	10,134	6,539
14 Prepared coal.....do....	363,040		359,145	56,214	83,192	27,393
15 Value of shipments and receipts, total.....\$1,000..	2,423,361	2,398,224	2,390,677	450,022	413,049	165,263
16 Raw coal transferred to other establishments for preparation and coal resales.....do....	331,883	332,332	331,883	68,085	39,030	26,707
17 Net shipments and receipts, total.....do....	2,091,478	2,065,892	2,058,794	381,937	314,019	138,556
18 Coal net shipments.....do....	2,065,628	2,061,705	2,054,607	380,078	373,169	138,218
19 Other products and services.....do....	25,850	4,187	4,187	1,859	850	338
20 Value added in mining.....do....	1,609,964	1,591,321	1,585,541	286,384	283,283	100,122
21 Number of persons engaged, total.....	195,017	193,006	192,747	38,319	25,752	10,276
22 Production and development workers, average for the year.....	163,533	161,908	161,711	31,747	21,563	8,282
23 January.....	182,169	180,338	180,113	36,380	23,106	9,028
24 February.....	177,510	175,727	175,497	34,241	22,709	8,878
25 March.....	173,187	171,503	171,276	33,606	22,722	8,885
26 April.....	168,787	167,130	166,897	33,822	21,567	8,389
27 May.....	160,423	158,823	158,599	31,489	20,928	8,096
28 June.....	161,018	159,398	159,178	32,206	20,595	7,977
29 July.....	155,670	154,050	153,865	29,888	20,325	7,863
30 August.....	158,342	156,747	156,569	30,374	21,018	7,962
31 September.....	164,148	162,487	162,308	31,438	21,464	8,060
32 October.....	165,827	164,158	163,980	32,029	21,653	8,270
33 November.....	163,930	162,274	162,111	32,067	21,681	8,273
34 December.....	167,163	165,490	165,335	32,627	21,825	8,289
35 Other employees.....	24,173	24,025	23,965	5,126	3,638	1,656
36 Proprietors and firm members.....	7,311	7,073	7,071	1,446	338	66
37 Performing manual labor.....	3,785	3,629	3,629	853	315	199
38 Man-hours worked by production and development workers, total.....1,000..	267,699	264,779	264,308	51,153	38,142	14,361
39 At mines, total.....do....	243,107	240,416	239,977	47,202	33,332	12,423
40 Underground.....do....	184,557	184,407	184,222	35,123	16,560	4,894
41 Strip pits, auger mines, culm-banks, and dredges.....do....	31,600	29,185	29,036	7,369	9,927	5,307
42 Surface (including mine shops and yards).....do....	26,950	26,824	26,719	4,710	6,845	2,222
43 At preparation plants.....do....	24,592	24,363	24,331	3,951	4,810	1,938
44 Man-hours spent on development and exploration work (included above).....do....	3,718	3,006	2,985	701	224	119
45 Principal expenses designated below, total.....do....	1,762,421	1,748,474	1,744,369	348,210	274,057	121,060
46 Wages of production and development workers.....do....	760,364	753,320	751,584	148,109	116,442	41,417
47 Salaries of all other employees.....do....	152,420	151,721	151,175	35,377	26,507	12,002
48 Supplies.....do....	354,363	349,983	349,532	55,037	63,991	25,779
49 Raw coal received for preparation.....do....	325,224	325,724	325,224	67,289	40,087	27,706
50 Coal received for resale without further processing.....do....	19,206	19,190	19,190	5,138	3,724	3,411
51 Purchased fuel.....do....	23,536	21,842	21,628	6,324	5,833	3,926
52 Purchased electricity.....do....	56,676	56,348	56,309	11,233	11,060	2,593
53 Contract work.....do....	70,632	70,346	69,727	19,703	6,413	4,226
54 Purchased machinery installed.....do....	151,955	147,732	147,493	30,795	28,077	9,528
55 Capital expenditures, total.....do....	188,195	184,262	183,967	31,881	29,419	12,028
56 Development and exploration of mineral property.....do....	9,058	9,154	8,984	1,885	1,629	966
57 Preparation plant and other construction.....do....	66,663	66,472	66,462	8,744	5,776	1,219
58 New machinery and equipment.....do....	101,219	97,867	97,783	18,441	19,180	9,244
59 Used plant and equipment.....do....	11,255	10,769	10,738	2,811	2,834	599
60 Energy used.....million kwh equivalent..	14,903	14,372	14,303	4,272	3,142	1,367
61 Coal produced and used at same establishment.....1,000 short tons..	450	453	449	149	90	2
62 Fuels purchased:						
63 Coal.....do....	90	101	90	82	...	...
64 Fuel oil.....1,000 barrels..	1,843	1,641	1,641	526	516	355
65 Gas.....million cu. ft..	535	586	514	176	34	21
66 Other fuels.....\$1,000..	6,617	6,127	6,127	1,360	2,130	1,437
67 Undistributed.....do....	5,753	5,475	5,475	1,452	900	624
68 Electric energy purchased.....million kwh..	4,352	4,304	4,303	843	802	225
69 Electric energy generated and used.....do....	80	84	80	43	16	7

See footnotes at end of table.



## Divisions and States, and Alaska: 1958

1211—Bituminous coal industry—Continued									
East North Central—Continued		West North Central		South Atlantic				East South Central	
Indiana	Illinois	Division	Missouri	Division	Maryland	Virginia	West Virginia	Division, Total	Kentucky
88	141	130	51	2,655	77	869	1,704	1,730	1,306
54	70	115	41	2,119	72	742	1,300	1,432	1,074
21	34	14	9	368	5	109	254	209	162
13	37	1	1	168	...	18	150	89	70
87	136	129	50	2,559	76	840	1,638	1,669	1,258
43	89	51	18	559	12	103	444	362	252
15,116	44,169	4,622	2,619	149,806	884	24,672	124,238	84,651	67,254
4,782	23,478	416	119	134,935	357	22,215	112,351	59,931	47,326
10,334	20,691	4,206	2,500	211,137	527	21,914	8,696	222,577	218,116
...	...	...	...	3,734	...	543	3,191	2,143	1,812
...	...	...	...	(2)	...	(2)	(2)	(2)	(2)
15,047	44,309	4,572	(D)	151,349	889	26,255	124,193	84,736	66,671
2,633	924	437	104	19,193	396	7,222	11,563	13,149	9,669
12,414	43,385	4,135	(D)	132,156	493	19,033	112,630	71,587	57,002
61,014	186,772	20,072	11,939	936,350	5,210	151,825	779,262	477,196	362,887
2,604	9,719	1,197	(D)	128,608	1,172	23,294	104,142	80,582	69,995
58,410	177,053	18,875	(D)	807,742	4,038	128,531	675,120	396,594	292,892
58,071	176,880	18,839	(D)	806,869	3,952	128,386	674,478	396,265	292,696
339	173	36	(D)	873	86	145	642	349	196
44,268	138,893	16,022	9,832	636,742	2,985	100,135	533,574	302,832	227,458
4,170	11,286	2,037	1,257	78,575	595	14,817	63,144	40,455	29,871
3,411	9,870	1,182	583	66,687	504	11,950	54,220	34,367	25,329
3,703	10,375	1,576	732	75,560	561	12,417	62,568	36,449	26,752
3,646	10,185	1,571	736	74,149	562	12,506	61,067	35,795	26,602
3,628	10,209	1,458	721	71,438	543	12,189	58,692	35,568	26,356
3,479	9,699	1,141	524	69,821	553	12,834	56,421	34,529	25,591
3,196	9,636	954	498	65,580	489	11,880	53,198	33,708	24,810
3,295	9,323	931	446	66,548	491	12,198	53,859	33,118	24,369
3,093	9,369	977	481	65,898	473	12,379	53,037	31,496	23,550
3,351	9,705	949	470	64,608	460	12,095	52,040	33,893	24,836
3,429	9,975	1,340	604	67,494	503	12,558	54,420	34,504	25,377
3,446	9,937	1,529	698	67,596	565	12,564	54,455	34,587	25,823
3,463	9,945	1,424	656	65,816	552	11,930	53,322	34,531	25,674
3,478	10,058	1,612	731	67,722	584	12,324	54,802	34,621	25,773
693	1,269	695	621	9,238	36	1,787	7,414	4,144	3,068
66	147	160	53	2,650	55	1,080	1,510	1,944	1,474
23	93	105	28	1,295	16	579	697	862	604
5,724	18,057	2,174	1,097	109,209	857	18,670	89,663	53,624	39,842
5,072	15,837	1,927	942	99,411	796	17,225	81,371	48,910	36,194
2,483	9,183	534	195	85,701	473	15,476	69,734	39,279	29,690
1,526	3,094	1,142	612	4,839	255	571	4,013	4,884	3,122
1,063	3,560	251	135	8,871	68	1,178	7,624	4,747	3,382
652	2,220	247	155	9,798	61	1,445	8,292	4,714	3,648
16	89	7	3	1,285	1	234	1,050	313	257
38,187	114,724	14,477	9,490	691,454	3,824	121,071	566,517	341,766	257,678
18,213	56,812	5,607	3,198	307,820	1,730	45,004	261,052	143,461	106,066
4,640	9,779	4,093	3,559	54,527	116	8,093	46,317	23,299	15,655
11,516	39,077	3,460	2,051	142,686	844	23,764	118,074	71,557	52,481
187	126	58	167	130,093	522	29,024	100,547	72,664	62,803
797	1,110	404	484	5,846	275	1,435	4,136	3,922	1,709
2,059	6,408	695	31	4,508	160	722	3,624	3,833	2,362
775	1,412	160	78	19,961	66	2,316	17,578	11,451	8,622
6,208	12,341	3,497	2,807	26,013	111	10,713	15,189	11,579	7,980
4,796	12,595	4,224	3,433	55,065	707	12,437	41,921	24,411	18,359
97	566	16	8	84,564	460	28,721	55,381	25,053	18,887
705	3,852	1,652	1,371	3,703	11	567	3,125	1,225	1,047
3,551	6,385	2,050	1,592	38,210	132	16,662	21,416	7,481	6,311
443	1,792	506	462	40,115	278	10,921	28,914	14,806	10,289
578	1,197	170	78	2,536	39	571	1,926	1,541	1,240
28	60	1	(4)	3,782	43	615	3,123	2,344	1,497
...	...	...	...	132	(4)	34	98	46	31
52	109	29	11	2	...	2	...	6	...
...	13	...	...	229	12	27	190	298	186
323	370	177	97	186	...	14	172	115	35
166	110	122	18	1,257	37	257	963	897	720
152	425	38	27	1,439	40	277	1,120	1,341	777
(D)	(D)	...	...	1,632	3	156	1,473	841	557
...	...	...	...	17	...	3	14	3	2

Table 3A.—Detailed Statistics for Industries, Selected

Item	1211--Bituminous coal industry—Continued			
	East South Central—Continued		West South Central	
	Tennessee	Alabama	Division	Oklahoma
1 Number of establishments, total.....	277	147	60	31
2 With 0-19 employees.....	251	107	46	21
3 With 20-99 employees.....	22	25	12	8
4 With 100 employees and over.....	4	15	2	2
5 Including mines, culm banks, and dredges.....	269	142	59	30
6 Including preparation plants.....	50	60	26	12
7 Net production of coal, total.....1,000 short tons..	5,698	11,699	2,046	1,656
8 From underground operations.....do....	3,541	9,064	488	382
9 From strip-pit operations.....do....	1,855	2,606	1,558	1,274
10 From auger operations.....do....	302	29	...	...
11 From culm-bank and dredge operations.....do....	...	...	...	...
12 Net shipments of coal, total.....do....	6,304	11,761	2,047	1,657
13 Raw coal sold for use without preparation.....do....	3,208	272	256	207
14 Prepared coal.....do....	3,096	11,489	1,791	1,450
15 Value of shipments and receipts, total.....\$1,000..	29,123	85,186	14,413	11,327
16 Raw coal transferred to other establishments for preparation and coal resales.....do....	3,663	6,924	19	18
17 Net shipments and receipts, total.....do....	25,460	78,262	14,394	11,309
18 Coal net shipments.....do....	25,384	78,185	14,354	11,286
19 Other products and services.....do....	76	77	40	23
20 Value added in mining.....do....	16,575	58,799	10,618	8,537
21 Number of persons engaged, total.....	3,015	7,569	1,119	836
22 Production and development workers, average for the year.....	2,416	6,622	974	746
23 January.....	2,335	7,359	1,255	939
24 February.....	2,311	6,882	1,095	940
25 March.....	2,335	6,877	871	709
26 April.....	2,231	6,707	828	693
27 May.....	2,268	6,630	946	690
28 June.....	2,194	6,555	925	684
29 July.....	2,256	5,690	837	684
30 August.....	2,418	6,639	910	712
31 September.....	2,345	6,782	1,032	778
32 October.....	2,430	6,334	1,106	841
33 November.....	2,531	6,326	1,166	879
34 December.....	2,466	6,382	1,301	870
35 Other employees.....	245	831	85	61
36 Proprietors and firm members.....	354	116	60	29
37 Performing manual labor.....	196	62	28	9
38 Man-hours worked by production and development workers, total.....1,000..	3,509	10,273	1,797	1,409
39 At mines, total.....do....	3,272	9,444	1,669	1,318
40 Underground.....do....	2,345	7,244	872	714
41 Strip-pits, auger mines, culm banks, and dredges.....do....	682	1,080	605	459
42 Surface (including mine shops and yards).....do....	245	1,120	192	145
43 At preparation plants.....do....	237	829	128	91
44 Man-hours spent on development and exploration work (included above).....do....	37	19	25	2
45 Principal expenses designated below, total.....\$1,000..	22,574	61,514	9,690	7,352
46 Wages of production and development workers.....do....	8,574	28,821	5,002	3,921
47 Salaries of all other employees.....do....	1,054	6,590	522	384
48 Supplies.....do....	5,360	13,716	2,749	1,826
49 Raw coal received for preparation.....do....	3,111	6,750	...	...
50 Coal received for resale without further processing.....do....	2,188	25	16	15
51 Purchased fuel.....do....	656	815	294	194
52 Purchased electricity.....do....	490	2,339	323	258
53 Contract work.....do....	1,141	2,458	784	754
54 Purchased machinery installed.....do....	1,778	4,274	456	370
55 Capital expenditures, total.....do....	2,176	3,990	827	627
56 Development and exploration of mineral property.....do....	137	41	107	53
57 Preparation plant and other construction.....do....	460	710	201	122
58 New machinery and equipment.....do....	1,442	3,075	447	381
59 Used plant and equipment.....do....	137	164	72	71
60 Energy used.....million kwh equivalent..	215	632	114	77
61 Coal produced and used at same establishment.....1,000 short tons..	(4)	15	(4)	(4)
Fuels purchased:				
62 Coal.....do....	...	6	...	...
63 Fuel oil.....1,000 barrels..	39	73	21	15
64 Gas.....million cu. ft..	...	80	3	3
65 Other fuels.....\$1,000..	53	124	92	66
66 Undistributed.....do....	386	178	90	39
67 Electric energy purchased.....million kwh..	39	245	31	23
68 Electric energy generated and used.....do....	1	...	...	...

D Withheld to avoid disclosing data for individual companies. <sup>1</sup>Coal mined by the Bituminous Coal and Lignite Services Industries is included in the production shown for the Bituminous Coal and Lignite Industries. <sup>2</sup>Figures for coal in culm-bank and strip-pit and dredge operations are included with those for coal from strip-pit operations. <sup>3</sup>Service establishments were requested to report man-hours by kind of work performed, rather than by department. The man-hours so reported have been allocated to the mine department where the service was performed. Thus "Underground" man-hours.



## Divisions and States, and Alaska: 1958--Continued

1211--Bituminous coal industry--Continued					1212-- Lignite industry	1213--Coal stripping services, nec				1214--Coal mining services, nec	
Mountain				Alaska		United States	Middle Atlantic (Pennsyl- vania)	South Atlantic			
Division	Wyoming	Colorado	Utah					Division	West Virginia		
203	20	105	35	10	58	137	56	47	40	20	1
156	14	84	18	6	50	118	51	39	34	18	2
37	5	18	11	4	7	19	5	8	6	1	3
10	1	3	6	...	1	...	...	...	...	1	4
200	20	103	34	10	58	xxx	xxx	xxx	xxx	xxx	5
127	15	58	33	6	24	xxx	xxx	xxx	xxx	xxx	6
10,527	1,643	3,210	5,329	765	4,231	(1)	(1)	(1)	(1)	(1)	7
8,786	372	2,787	5,329	251	24	(1)	(1)	(1)	(1)	(1)	8
1,741	1,271	423	...	514	4,207	(1)	(1)	(1)	(1)	(1)	9
...	...	...	...	...	...	(1)	(1)	(1)	(1)	(1)	10
...	...	...	...	...	...	(1)	(1)	(1)	(1)	(1)	11
10,394	1,634	3,121	5,293	762	4,230	(1)	(1)	(1)	(1)	(1)	12
561	(D)	(D)	52	(D)	335	(1)	(1)	(1)	(1)	(1)	13
9,833	(D)	(D)	5,241	(D)	3,895	(1)	(1)	(1)	(1)	(1)	14
77,040	5,619	19,698	49,738	7,547	11,035	19,162	6,324	r7,782	5,364	2,487	15
13,868	6	540	13,305	449	...	xxx	xxx	xxx	xxx	xxx	16
63,172	5,613	19,158	36,433	7,098	11,035	19,162	6,324	r7,782	5,364	2,487	17
62,996	5,613	19,129	36,293	7,098	11,021	...	...	...	...	...	18
176	...	29	140	...	14	19,162	6,324	r7,782	5,364	2,487	19
48,051	4,244	16,348	25,376	5,780	9,309	13,409	4,485	r5,397	3,681	1,705	20
5,917	518	2,151	2,863	259	567	1,461	525	r598	451	242	21
4,946	399	1,800	2,467	197	437	1,180	409	r514	387	205	22
5,943	509	2,258	2,838	225	550	1,294	416	528	436	212	23
5,587	502	2,068	2,711	230	529	1,263	408	530	437	221	24
5,271	492	1,929	2,553	227	459	1,231	408	545	444	221	25
4,823	418	1,733	2,414	233	396	1,289	405	564	462	205	26
4,636	294	1,678	2,405	224	396	1,224	405	540	419	204	27
4,538	270	1,598	2,429	220	393	1,244	407	530	408	203	28
4,299	262	1,556	2,277	185	405	1,195	405	505	379	205	29
4,657	368	1,637	2,406	178	398	1,171	426	505	380	204	30
4,870	434	1,748	2,428	179	421	1,215	425	492	367	204	31
5,187	448	1,931	2,492	178	480	1,166	405	447	331	201	32
5,286	443	1,986	2,522	163	508	1,114	412	419	290	197	33
5,350	473	1,967	2,575	155	535	1,096	371	410	291	197	34
720	107	216	357	60	73	120	38	r55	39	15	35
251	12	135	39	2	57	161	78	31	25	22	36
169	7	90	24	...	38	101	38	29	23	17	37
7,818	531	2,807	4,025	471	844	2,106	827	r862	645	441	38
7,184	469	2,598	3,687	439	583	2,106	3827	3831	3645	3441	39
5,877	207	2,137	3,187	185	21	...	...	...	...	3314	40
266	125	111	...	149	435	3,028	3795	3836	3641	3101	41
1,041	137	350	500	105	127	378	332	315	34	326	42
634	62	209	338	32	261	...	...	...	...	...	43
359	23	41	205	21	16	392	100	104	104	325	44
60,197	3,499	13,442	41,354	4,105	4,329	11,910	4,024	r5,099	3,777	1,813	45
23,941	1,506	8,359	12,933	1,736	2,261	5,615	1,805	r2,549	1,822	904	46
4,488	485	1,269	2,574	546	432	758	223	r310	201	55	47
24,299	705	2,947	20,360	951	1,133	2,999	1,038	r1,284	1,064	699	48
478	8	9	451	...	...	xxx	xxx	xxx	xxx	xxx	49
412	97	148	135	214	210	1,612	659	550	429	86	50
1,505	117	474	849	39	260	107	37	52	52	...	51
5,074	581	236	4,052	619	33	815	258	354	209	57	52
5,131	241	884	3,407	239	1,522	2,816	1,241	r1,000	331	124	53
7,910	374	1,348	4,892	295	1,432	2,600	1,398	r855	402	196	54
394	60	193	132	170	74	...	...	...	...	...	55
4,381	241	252	3,194	10	69	130	50	20	20	2	56
2,709	48	626	1,515	84	1,236	2,006	1,108	r651	355	194	57
426	25	277	51	31	53	464	240	184	27	...	58
451	83	143	191	69	111	467	180	173	134	22	59
29	7	10	10	4	1	...	...	...	...	...	60
...	...	...	...	...	...	...	...	...	...	...	61
21	2	8	9	11	14	185	72	84	66	3	62
...	...	...	...	...	21	...	...	...	...	...	63
195	67	37	75	72	88	343	150	102	75	59	64
131	17	66	17	...	34	236	70	...	...	8	65
110	5	26	76	1	42	7	2	3	3	(4)	66
1	(D)	(D)	(D)	4	...	...	...	...	...	...	67

represent such services as drilling, rock work, shaft sinking, and mine tunneling; "Strip pits, auger mines, culm banks, and dredges" man-hours represent stripping overburden, strip-pit mining, auger mining, and loading culm-bank material; and "Surface" man-hours represent excavating, shop work, hauling from mine to preparation plant, and other miscellaneous services. <sup>4</sup>Less than one-half of the unit of measure specified.

Table 3B.—Detailed Statistics for the Bituminous Coal and Lignite

Item	1211—Bituminous coal							
	All establishments	Producing establishments						
		All producing establishments	Mines only					Strip-pit and underground and other combinations
			All mines only	Strip-pit	Underground	Auger	Strip-pit and auger	
1 Number of establishments, total.....	6,715	6,669	4,862	737	3,926	116	44	39
2 With 0-19 employees.....	5,373	5,330	4,415	677	3,565	111	31	31
3 With 20-99 employees.....	930	927	400	58	318	5	12	7
4 With 100 employees and over.....	412	412	47	2	43	...	1	1
5 Including mines, culm banks, and dredges.....	6,503	6,459	4,862	737	3,926	116	44	39
6 Including preparation plants.....	1,807	1,807	...	...	...	...	...	...
7 Gross shipments of coal.....1,000 short tons..	492,840	492,840	119,169	29,892	77,532	2,935	4,594	4,216
8 Net shipments of coal, total.....do....	416,183	416,183	48,495	16,427	27,566	2,132	1,754	616
9 Raw coal sold for use without preparation.....do....	57,038	57,038	48,495	16,427	27,566	2,132	1,754	616
10 Prepared coal.....do....	359,145	359,145	xxx	xxx	xxx	xxx	xxx	xxx
11 Value of shipments and receipts, total.....\$1,000..	2,390,677	2,390,677	480,799	105,115	328,973	9,405	17,918	19,388
12 Raw coal transferred to other establish- ments for preparation and coal resales.....do....	331,883	331,883	295,413	45,221	218,853	2,923	11,203	17,213
13 Net shipments and receipts.....do....	2,058,794	2,058,794	185,386	59,894	110,120	6,482	6,715	2,175
14 Coal net shipments.....do....	2,054,607	2,054,607	184,722	59,446	109,973	6,476	6,713	2,114
15 Other products and services.....do....	4,187	4,187	664	448	147	6	2	61
16 Value added in mining.....do....	1,585,541	1,584,981	351,874	71,646	247,103	5,862	12,549	14,714
17 Number of persons engaged, total.....	192,747	192,510	56,119	6,439	46,700	735	855	1,390
18 Production and development workers, average for the year.....	161,711	161,534	45,383	5,055	37,889	547	729	1,163
19 March.....	171,276	171,149	46,633	4,955	39,225	438	696	1,319
20 May.....	158,599	158,458	44,139	4,946	36,859	533	710	1,091
21 August.....	156,569	156,371	44,791	5,048	37,332	543	753	1,115
22 November.....	162,111	161,866	47,134	5,321	39,330	559	784	1,140
23 Other employees.....	23,965	23,919	5,145	602	4,178	77	103	185
24 Proprietors and firm members.....	7,071	7,057	5,591	782	4,633	111	23	42
25 Performing manual labor.....	3,629	3,620	2,858	454	2,300	62	12	30
26 Man-hours worked by production and development workers, total.....1,000..	264,308	264,042	70,844	8,876	57,788	870	1,267	2,043
27 At mines, total.....do....	239,977	239,711	70,844	8,876	57,788	870	1,267	2,043
28 Underground.....do....	184,222	184,166	56,284	...	54,560	4	...	1,720
29 Strip-pits, auger mines, culm banks, and dredges.....do....	29,036	29,036	9,941	7,871	...	798	1,123	149
30 Surface (including mine shops and yards).....do....	26,719	26,509	4,619	1,005	3,228	68	144	174
31 At preparation plant.....do....	24,331	24,331	...	...	...	...	...	...
32 Man-hours spent on development and exploration work (included above).....do....	2,985	2,719	533	188	336	3	6	...
33 Principal expenses designated below, total.....\$1,000..	1,744,361	1,738,098	327,090	61,372	237,917	6,037	10,548	11,216
34 Wages of production and development workers.....do....	751,584	750,682	169,797	23,170	135,047	2,198	3,621	5,761
35 Salaries.....do....	151,175	151,000	24,671	3,238	19,329	287	616	1,201
36 Supplies.....do....	349,532	349,232	88,094	19,797	61,280	1,450	3,026	2,541
37 Raw coal received for preparation.....do....	325,224	325,224	xxx	xxx	xxx	xxx	xxx	xxx
38 Coal received for resale without further processing.....do....	19,190	19,190	4,460	978	3,054	66	125	237
39 Purchased fuel.....do....	21,628	21,554	8,844	5,655	1,641	538	786	224
40 Purchased electricity.....do....	56,309	56,214	11,534	1,463	9,456	120	188	307
41 Contract work.....do....	69,727	65,010	19,698	7,071	8,110	1,378	2,186	953
42 Purchased machinery installed.....do....	147,493	142,229	25,695	6,382	16,364	687	1,023	1,239
43 Capital expenditures, total.....do....	183,967	172,957	29,400	7,877	18,035	696	1,965	827
44 Development and exploration of mineral property.....do....	8,984	8,862	1,342	473	709	15	109	36
45 Preparation plant and other construction.....do....	66,462	60,155	8,890	1,742	6,846	215	30	57
46 New machinery and equipment.....do....	97,783	93,502	16,499	4,699	9,049	333	1,689	729
47 Used plant and equipment.....do....	10,738	10,438	2,669	963	1,431	133	137	5
48 Energy used.....million kwh equivalent..	14,298	14,273	3,388	1,659	1,228	144	223	134
49 Coal produced and used at same establishment.....1,000 short tons..	449	449	11	1	10	...	...	...
50 Fuels purchased: Coal.....do....	90	90	13	(2)	8	...	...	5
51 Fuel oil.....1,000 barrels..	1,641	1,634	526	377	44	9	70	26
52 Gas.....million cu. ft..	514	514	64	...	56	8	...	...
53 Other fuels.....\$1,000..	6,127	6,115	2,183	1,173	591	63	274	82
54 Undistributed.....do....	5,475	5,459	3,535	2,354	682	413	63	23
55 Electric energy purchased.....million kwh..	4,303	4,297	857	125	680	7	19	26
56 Electric energy generated and used.....do....	80	80	11	(2)	11	(2)	...	...

See footnotes at end of table.



## Industries for Selected Types of Operation, by Selected States: 1958

1211--Bituminous coal--Continued											
Producing establishments--Continued											
Mines with preparation plants											
All mines with preparation plants	With mechanical cleaning							With mechanical crushing, screening, or sizing only			
	All mines with mechanical cleaning	Strip-pit	Underground	Strip-pit and underground	Strip-pit and auger	Underground and auger	Other combinations, auger only, and dredge	All mines with mechanical crushing, screening, or sizing only	Strip-pit	Underground	
1,597	574	112	400	22	11	10	19	1,023	331	583	1
737	76	21	40	2	3	...	10	661	223	376	2
501	186	59	105	10	6	2	4	315	104	167	3
359	312	32	255	10	2	8	5	47	4	40	4
1,597	574	112	400	22	11	10	19	1,023	331	583	5
1,597	574	112	400	22	11	10	19	1,023	331	583	6
326,316	255,964	49,344	185,184	8,718	4,691	4,845	3,182	70,352	25,332	33,276	7
320,333	252,813	49,300	184,854	7,807	4,691	4,845	1,316	67,520	25,197	30,628	8
8,543	2,154	356	1,633	165	...	...	...	6,389	1,369	4,668	9
311,790	250,659	48,944	183,221	7,642	4,691	4,845	1,316	61,131	23,828	25,960	10
1,634,522	1,306,464	189,911	1,008,966	46,978	18,252	23,584	18,773	328,058	99,935	178,853	11
29,688	5,062	281	3,655	303	327	368	128	24,626	1,950	21,826	12
1,604,834	1,301,402	189,630	1,005,311	46,675	17,925	23,216	18,645	303,432	97,985	157,027	13
1,601,355	1,298,535	189,391	1,003,517	46,175	17,875	22,999	18,578	302,820	97,626	156,878	14
3,479	2,867	239	1,794	500	50	217	67	612	359	149	15
1,199,708	977,258	138,140	768,319	28,095	13,349	15,564	13,791	222,450	65,470	129,031	16
133,042	104,104	8,501	87,565	3,056	783	2,342	1,857	28,938	6,578	19,388	17
113,407	88,712	6,955	74,534	2,803	691	2,129	1,600	24,695	5,429	16,752	18
121,814	95,205	7,081	80,705	2,996	670	2,126	1,627	26,609	5,612	18,428	19
111,587	87,975	6,858	73,976	2,711	728	2,071	1,631	23,612	5,345	15,892	20
108,819	85,376	6,883	71,359	2,780	675	2,058	1,621	23,443	5,335	15,561	21
111,943	86,506	6,993	72,291	2,739	693	2,265	1,525	25,438	5,588	17,407	22
18,274	15,105	1,466	12,937	216	64	213	209	3,169	822	1,972	23
1,361	287	80	94	37	28	...	48	1,074	327	664	24
715	76	25	38	6	3	...	4	639	198	429	25
188,680	147,033	13,243	121,952	4,696	1,271	3,212	2,659	41,647	10,367	26,598	26
168,867	130,695	10,388	109,997	4,127	982	2,859	2,342	38,172	9,066	24,876	27
127,882	104,667	...	97,101	3,410	...	2,448	1,708	23,215	...	21,915	28
19,095	8,690	7,364	...	245	835	20	226	10,405	7,961	...	29
21,890	17,338	3,024	12,896	472	147	391	408	4,552	1,105	2,961	30
19,813	16,338	2,855	11,955	569	289	353	317	3,475	1,301	1,722	31
2,095	1,339	44	1,067	65	46	21	96	756	221	436	32
1,149,687	915,746	104,643	730,572	36,495	8,585	20,586	14,865	233,941	64,422	134,401	33
568,286	460,336	44,443	378,515	14,734	3,843	10,630	8,171	107,950	24,913	71,398	34
123,375	106,573	10,309	92,059	1,523	390	1,502	790	16,802	3,626	11,281	35
254,125	204,434	25,997	159,040	9,518	2,460	6,011	2,342	49,691	16,398	24,593	36
98,271	73,809	11,557	57,307	2,259	...	...	1,752	24,462	4,914	16,409	37
8,881	3,255	122	2,340	160	264	369	...	5,626	1,284	3,545	38
12,127	4,872	2,755	1,066	170	378	83	420	7,255	4,962	866	39
42,362	37,203	6,485	28,363	911	387	594	463	5,159	902	3,890	40
42,260	25,264	2,975	11,882	7,220	863	1,397	927	16,996	7,423	2,419	41
114,260	93,509	18,401	64,303	3,575	4,188	1,083	1,959	20,751	8,918	8,090	42
137,472	113,140	16,521	83,654	4,930	3,637	1,517	2,881	24,332	10,336	9,990	43
5,123	3,741	576	2,887	110	...	151	17	1,382	552	704	44
48,534	42,017	4,249	33,081	2,332	259	78	2,018	6,517	2,472	3,395	45
76,197	62,701	10,556	44,382	2,378	3,358	1,213	814	13,496	5,677	4,750	46
7,618	4,681	1,140	3,304	110	20	75	32	2,937	1,635	1,141	47
10,337	7,734	1,505	4,980	269	166	160	654	2,603	1,435	732	48
414	382	34	304	17	5	12	10	32	2	30	49
72	67	1	2	1	...	...	63	5	2	2	50
1,080	449	296	65	28	34	3	23	631	459	32	51
426	395	15	372	4	...	...	4	31	16	11	52
3,828	1,719	922	484	61	134	58	60	2,109	1,315	324	53
1,721	301	166	64	14	26	...	31	1,420	886	347	54
3,245	2,894	453	2,268	63	30	49	31	351	65	262	55
69	48	...	34	(D)	(2)	(2)	(D)	21	2	19	56

Table 3B.—Detailed Statistics for the Bituminous Coal and Lignite Industries

Item	1211—Bituminous coal—Continued					
	Producing establishments—Continued					
	Mines with preparation plants—Continued			Preparation plants only		
	With mechanical crushing, screening, or sizing only—Continued			All preparation plants only	With mechanical cleaning	With mechanical crushing, screening, or sizing only
	Strip-pit and underground	Strip-pit and auger	Auger only and other combinations			
1 Number of establishments, total.....	25	47	37	210	59	151
2 With 0-19 employees.....	15	25	22	178	34	144
3 With 20-99 employees.....	10	22	12	26	19	7
4 With 100 employees and over.....	...	...	3	6	6	...
5 Including mines, culm banks, and dredges.....	25	47	37	...	...	...
6 Including preparation plants.....	25	47	37	210	59	151
7 Gross shipments of coal.....1,000 short tons..	1,819	5,866	4,059	47,355	34,533	12,822
8 Net shipments of coal, total.....do....	1,819	5,866	4,010	47,355	34,533	12,822
9 Raw coal sold for use without preparation.....do....	252	...	100	xxx	xxx	xxx
10 Prepared coal.....do....	1,567	5,866	3,910	47,355	34,533	12,822
11 Value of shipments and receipts, total.....\$1,000..	8,188	23,329	17,753	275,356	213,339	62,017
12 Raw coal transferred to other establish- ments for preparation and coal resales.....do....	135	715	...	6,782	2,971	3,811
13 Net shipments and receipts.....do....	8,053	22,614	17,753	268,574	210,368	58,206
14 Coal net shipments.....do....	8,028	22,535	17,753	268,530	210,368	58,162
15 Other products and services.....do....	25	79	...	44	...	44
16 Value added in mining.....do....	4,336	12,518	11,095	33,399	22,966	10,433
17 Number of persons engaged, total.....	578	1,322	1,072	3,349	2,195	1,154
18 Production and development workers, average for the year.....	528	1,089	897	2,744	1,865	879
19 March.....	569	1,062	938	2,702	1,851	851
20 May.....	449	1,049	877	2,732	1,871	861
21 August.....	545	1,064	938	2,761	1,870	891
22 November.....	558	1,035	850	2,789	1,864	925
23 Other employees.....	35	187	153	500	321	179
24 Proprietors and firm members.....	15	46	22	105	9	96
25 Performing manual labor.....	3	4	5	47	5	42
26 Man-hours worked by production and development workers, total.....1,000..	997	2,194	1,491	4,518	3,034	1,484
27 At mines, total.....do....	900	1,969	1,361	...	...	...
28 Underground.....do....	554	...	746	...	...	...
29 Strip-pits, auger mines, culm banks, and dredges.....do....	280	1,741	423	...	...	...
30 Surface (including mine shops and yards).....do....	66	228	192	...	...	...
31 At preparation plant.....do....	97	225	130	4,518	3,034	1,484
32 Man-hours spent on development and exploration work (included above).....do....	14	78	7	91	82	9
33 Principal expenses designated below, total.....\$1,000..	6,037	16,949	12,132	261,321	205,407	55,914
34 Wages of production and development workers.....do....	1,940	5,348	4,351	12,599	9,363	3,236
35 Salaries.....do....	280	831	784	2,954	2,151	803
36 Supplies.....do....	676	4,560	3,464	7,013	6,163	850
37 Raw coal received for preparation.....do....	1,623	715	801	226,953	179,645	47,308
38 Coal received for resale without further processing.....do....	127	670	...	5,849	2,721	3,128
39 Purchased fuel.....do....	196	960	271	583	383	200
40 Purchased electricity.....do....	72	72	223	2,318	4,981	389
41 Contract work.....do....	1,123	3,793	2,238	3,052	...	...
42 Purchased machinery installed.....do....	847	2,305	591	2,274	1,920	354
43 Capital expenditures, total.....do....	812	2,264	930	6,085	5,440	645
44 Development and exploration of mineral property.....do....	91	24	11	2,397	2,386	11
45 Preparation plant and other construction.....do....	28	106	516	2,731	2,445	286
46 New machinery and equipment.....do....	610	2,088	371	806	525	281
47 Used plant and equipment.....do....	83	46	32	151	84	67
48 Energy used.....million kwh equivalent..	89	253	94	548	477	71
49 Coal produced and used at same establishment.....1,000 short tons..	...	...	...	24	24	...
Fuels purchased:						
50 Coal.....do....	1	...	(2)	5	5	...
51 Fuel oil.....1,000 barrels..	31	85	24	28	27	1
52 Gas.....million cu. ft..	4	...	...	24	24	...
53 Other fuels.....\$1,000..	70	334	66	104	67	37
54 Undistributed.....do....	19	80	88	203	49	154
55 Electric energy purchased.....million kwh..	4	5	15	195	173	22
56 Electric energy generated and used.....do....	...	...	...	(2)	(2)	...

See footnotes at end of table.



for Selected Types of Operation, by Selected States: 1958-Continued

1211—Bituminous coal—Continued									
Nonproducing establishments	Middle Atlantic (Pennsylvania)								
	All establishments	Producing establishments							Preparation plants only (with mechanical cleaning)
		Mines only		Mines with preparation plants					
		Strip-pit	Underground	With mechanical cleaning		With mechanical crushing, screening, or sizing only			
Strip-pit	Underground			Strip-pit	Underground				
46	1,312	288	589	22	66	127	112	11	1
43	1,086	272	549	8	5	90	79	6	2
3	154	16	25	13	18	35	26	3	3
...	72	...	14	1	43	2	7	2	4
46	1,279	288	589	22	66	127	112	...	5
...	389	...	...	22	66	127	112	11	6
...	84,338	7,877	16,189	3,375	29,197	7,991	4,961	8,503	7
...	69,537	5,127	5,803	3,371	28,867	7,940	4,325	8,503	8
...	13,323	5,127	5,803	174	312	439	57	xxx	9
...	56,214	xxx	xxx	3,197	28,555	7,501	4,268	8,503	10
...	450,022	29,523	76,164	14,254	184,027	32,382	26,457	57,386	11
...	68,085	10,660	45,767	46	2,629	1,075	3,397	1,714	12
...	381,937	18,863	30,397	14,208	181,398	31,307	23,060	55,672	13
...	380,078	18,634	30,311	14,077	180,409	31,284	23,010	55,657	14
...	1,859	229	86	131	989	23	50	15	15
560	286,384	19,092	59,296	9,531	140,032	18,673	17,901	5,360	16
237	38,319	2,100	8,946	884	18,038	2,378	3,110	496	17
177	31,747	1,546	7,415	788	15,027	1,929	2,613	449	18
127	33,606	1,528	7,993	800	15,819	1,972	3,006	453	19
141	31,489	1,553	7,268	781	14,988	1,960	2,520	451	20
198	30,374	1,547	7,027	761	14,370	1,939	2,329	444	21
245	32,069	1,650	7,646	811	14,928	1,947	2,629	454	22
46	5,126	200	831	81	3,002	302	384	44	23
14	1,446	354	700	15	9	147	113	5	24
9	853	234	438	7	6	80	65	...	25
266	51,153	2,783	11,485	1,539	23,310	3,807	3,952	718	26
266	47,202	2,783	11,485	1,277	21,531	3,268	3,722	...	27
56	35,123	...	10,506	...	19,272	...	3,351	...	28
...	7,369	2,706	...	1,067	...	2,965	...	...	29
210	4,710	77	979	210	2,259	303	371	...	30
...	3,951	...	...	262	1,779	539	230	718	31
266	701	132	80	15	151	61	...	6	32
6,263	348,210	18,416	52,852	9,864	137,976	22,846	22,408	54,788	33
902	148,109	6,785	32,997	3,975	73,471	7,767	11,493	2,277	34
175	35,377	707	5,972	687	23,712	895	823	302	35
300	55,037	4,498	10,172	2,313	25,187	4,985	3,756	729	36
...	67,289	xxx	xxx	937	4,880	2,209	4,020	49,052	37
...	5,138	636	314	25	1,418	725	280	1,559	38
74	6,324	2,115	377	671	201	2,052	110	35	39
95	11,233	161	2,135	289	6,655	88	745	653	40
4,717	19,703	3,514	885	967	2,452	4,125	181	181	41
5,264	30,795	2,906	5,876	1,423	12,629	2,723	1,563	474	42
11,010	31,881	3,399	2,891	1,902	9,427	3,198	2,099	657	43
122	1,885	294	123	143	215	167	57	13	44
6,307	8,744	592	675	380	1,053	362	859	408	45
4,281	18,441	2,008	1,998	1,117	7,354	1,867	1,003	166	46
300	2,811	505	95	262	805	802	180	70	47
25	4,272	499	355	239	1,508	594	97	107	48
...	149	( <sup>2</sup> )	6	5	118	( <sup>2</sup> )	1	6	49
...	82	1	8	1	1	2	1	...	50
7	526	163	11	72	13	222	4	1	51
...	176	...	25	...	109	4	7	...	52
12	1,360	426	83	208	71	454	26	...	53
16	1,452	387	181	1	...	319	52	28	54
6	843	10	155	18	520	5	53	52	55
...	43	( <sup>2</sup> )	2	...	24	1	3	...	56

Table 3B.—Detailed Statistics for the Bituminous Coal and Lignite Industries

Item		1211—Bituminous coal—Continued			
		East North Central			
		Ohio			
		All establishments	Producing establishments		
			Mines only		
			Strip-pit	Underground	Auger only and strip-pit and auger
1	Number of establishments, total.....	383	97	107	19
2	With 0-19 employees.....	287	79	102	14
3	With 20-99 employees.....	77	16	4	4
4	With 100 employees and over.....	19	2	1	1
5	Including mines, culm banks, and dredges.....	373	97	107	19
6	Including preparation plants.....	156	...	...	...
7	Gross shipments of coal.....1,000 short tons..	40,831	8,582	1,875	2,138
8	Net shipments of coal, total.....do....	33,932	3,868	704	1,177
9	Raw coal sold for use without preparation.....do....	6,539	3,868	704	1,177
10	Prepared coal.....do....	27,393	xxx	xxx	xxx
11	Value of shipments and receipts, total.....\$1,000..	165,263	29,275	6,971	8,077
12	Raw coal transferred to other establish- ments for preparation and coal resales.....do....	26,707	15,339	4,033	4,316
13	Net shipments and receipts.....do....	138,556	13,936	2,938	3,761
14	Coal net shipments.....do....	138,218	13,798	2,938	3,761
15	Other products and services.....do....	338	138	...	...
16	Value added in mining.....do....	100,122	22,324	5,745	6,260
17	Number of persons engaged, total.....	10,276	1,447	1,056	388
18	Production and development workers, average for the year.....	8,282	1,234	818	325
19	March.....	8,885	1,224	1,027	331
20	May.....	8,096	1,182	741	330
21	August.....	7,962	1,245	728	321
22	November.....	8,273	1,269	809	329
23	Other employees.....	1,656	137	113	52
24	Proprietors and firm members.....	338	76	126	11
25	Performing manual labor.....	199	51	61	7
26	Man-hours worked by production and development workers, total.....1,000..	14,361	2,096	1,096	548
27	At mines, total.....do....	12,423	2,096	1,096	548
28	Underground.....do....	4,894	...	1,048	...
29	Strip-pits, auger mines, culm banks, and dredges.....do....	5,307	1,526	...	434
30	Surface (including mine shops and yards).....do....	2,222	570	48	114
31	At preparation plant.....do....	1,938	...	...	...
32	Man-hours spent on development and exploration work (included above).....do....	119	8	36	...
33	Principal expenses designated below, total.....\$1,000..	121,060	14,276	4,493	4,795
34	Wages of production and development workers.....do....	41,417	6,018	2,470	1,634
35	Salaries.....do....	12,002	1,078	414	249
36	Supplies.....do....	25,779	5,458	1,283	1,557
37	Raw coal received for preparation.....do....	27,706	...	...	...
38	Coal received for resale without further processing.....do....	3,411	131	63	17
39	Purchased fuel.....do....	3,926	1,132	57	348
40	Purchased electricity.....do....	2,593	399	186	267
41	Contract work.....do....	4,226	160	20	936
42	Purchased machinery installed.....do....	9,528	1,197	26	284
43	Capital expenditures, total.....do....	12,028	1,526	409	1,379
44	Development and exploration of mineral property..do....	966	24	65	11
45	Preparation plant and other construction.....do....	1,219	276	244	31
46	New machinery and equipment.....do....	9,244	993	93	1,289
47	Used plant and equipment.....do....	599	233	7	48
48	Energy used.....million kwh equivalent..	1,367	411	30	102
49	Coal produced and used at same establishment.....1,000 short tons..	2	...	(2)	...
50	Fuels purchased:				
51	Coal.....do....	...	...	...	...
52	Fuel oil.....1,000 barrels..	355	116	1	30
53	Gas.....million cu. ft..	21	...	2	...
54	Other fuels.....\$1,000..	1,437	319	12	158
55	Undistributed.....do....	624	343	38	21
56	Electric energy purchased.....million kwh..	225	47	14	6
56	Electric energy generated and used.....do....	7	...	...	...

See footnotes at end of table.



for Selected Types of Operation, by Selected States: 1958-Continued

1211--Bituminous coal--Continued									
East North Central--Continued									
Ohio--Continued					Indiana				
Producing establishments--Continued					All establishments	Producing establishments			
Mines with preparation plants				Preparation plants only		Mines only (strip-pit)	Mines with preparation plants		
With mechanical cleaning		With mechanical crushing, screening, or sizing only					With mechanical cleaning		
Strip-pit	Underground	Strip-pit	Strip-pit and auger				Strip-pit	Underground	
4	12	72	11	10	88	23	11	8	1
...	1	40	4	8	54	20	...	...	2
3	2	32	7	1	21	3	6	2	3
1	9	...	...	1	13	...	5	6	4
4	12	72	11	xxx	87	...	...	...	5
4	12	72	11	10	43	23	11	8	6
2,650	6,770	7,676	1,951	5,617	15,972	3,358	6,043	3,832	7
2,650	6,770	7,626	1,951	5,617	15,047	2,433	6,043	3,832	8
...	...	428	...	xxx	2,633	2,433	...	...	9
2,650	6,770	6,198	1,951	5,617	12,414	xxx	6,043	3,832	10
8,741	31,436	26,915	7,964	30,569	61,014	11,048	22,643	15,955	11
...	...	399	...	2,375	2,604	2,400	...	...	12
8,741	31,436	26,516	7,964	28,194	58,410	8,648	22,643	15,955	13
8,741	31,436	26,480	7,964	28,194	58,071	8,475	22,643	15,955	14
...	...	36	...	...	339	173	...	...	15
6,057	24,987	17,490	4,435	2,119	44,268	8,533	17,757	12,201	16
363	3,108	1,734	398	452	4,170	301	1,147	1,837	17
321	2,247	1,446	338	387	3,411	244	952	1,470	18
325	2,468	1,470	334	385	3,628	239	1,028	1,512	19
309	2,258	1,391	334	405	3,196	216	909	1,440	20
321	2,129	1,417	345	410	3,351	236	930	1,486	21
328	2,143	1,523	344	375	3,463	267	941	1,437	22
39	861	224	55	64	693	39	193	364	23
3	...	64	5	1	66	18	2	3	24
3	...	45	5	1	23	6	1	...	25
658	3,907	2,960	715	604	5,724	472	1,598	2,400	26
438	3,311	2,632	660	223	5,072	472	1,222	2,260	27
...	3,103	...	...	...	2,483	...	...	1,872	28
191	...	2,203	538	...	1,526	320	883	...	29
247	208	429	122	223	1,063	152	339	388	30
220	596	328	55	381	652	...	376	140	31
12	3	51	2	...	16	3	...	...	32
5,107	26,836	17,564	5,618	31,088	38,187	4,399	11,537	13,088	33
2,118	12,809	7,181	1,887	2,062	18,213	1,584	5,643	7,157	34
252	7,434	1,248	263	443	4,640	351	1,530	2,271	35
2,279	5,178	5,055	1,835	1,480	11,516	1,568	3,063	3,070	36
...	532	1,044	611	24,614	...	...	...	...	37
...	...	223	...	2,230	187	...	...	...	38
168	70	1,449	430	36	797	181	287	61	39
267	801	224	38	223	2,059	237	1,014	499	40
23	12	1,140	554	...	775	478	...	30	41
231	711	2,932	790	57	6,208	429	1,151	374	42
284	855	2,642	729	190	4,796	378	629	280	43
24	58	139	...	...	97	56	...	21	44
87	106	220	18	8	705	85	244	79	45
173	642	2,097	711	176	3,551	189	265	159	46
...	49	186	...	6	443	48	120	21	47
75	97	405	123	12	578	68	199	227	48
...	2	...	...	...	28	...	5	23	49
...	...	...	...	...	...	...	...	...	50
20	2	130	37	3	52	8	29	2	51
...	10	9	...	...	...	...	...	...	52
70	55	501	206	14	323	39	123	52	53
...	...	167	12	6	166	97	8	...	54
23	62	13	5	1	152	20	78	34	55
...	...	(2)	7	...	(D)	...	...	(D)	56

Table 3B.—Detailed Statistics for the Bituminous Coal and Lignite Industries

Item	1211—Bituminous coal—Continued			
	East North Central—Continued			
	Illinois			
	All establishments	Producing establishments		
		Mines only (underground)	Mines with mechanical cleaning plants	
			Strip-pit	Underground
1 Number of establishments, total.....	141	31	33	27
2 With 0-19 employees.....	70	24	2	3
3 With 20-99 employees.....	34	4	14	7
4 With 100 employees and over.....	37	3	17	17
5 Including mines, culm banks, and dredges.....	136	31	33	27
6 Including preparation plants.....	89	...	...	...
7 Gross shipments of coal.....1,000 short tons..	47,574	2,687	21,839	20,881
8 Net shipments of coal, total.....do....	44,309	321	21,839	20,881
9 Raw coal sold for use without preparation.....do....	924	321	...	122
10 Prepared coal.....do....	43,385	xxx	21,839	20,759
11 Value of shipments and receipts, total.....\$1,000..	186,772	8,887	86,782	83,901
12 Raw coal transferred to other establish- ments for preparation and coal resales.....do....	9,719	7,399	58	9
13 Net shipments and receipts.....do....	177,053	1,488	86,724	83,892
14 Coal net shipments.....do....	176,880	1,488	86,697	83,852
15 Other products and services.....do....	173	...	27	40
16 Value added in mining.....do....	138,893	7,172	61,129	62,209
17 Number of persons engaged, total.....	11,286	766	3,273	6,526
18 Production and development workers, average for the year.....	9,870	698	2,875	5,724
19 March.....	10,209	735	2,863	5,950
20 May.....	9,636	644	2,868	5,653
21 August.....	9,705	671	2,858	5,694
22 November.....	9,945	744	2,902	5,609
23 Other employees.....	1,269	46	388	790
24 Proprietors and firm members.....	147	22	10	12
25 Performing manual labor.....	93	7	4	7
26 Man-hours worked by production and development workers, total.....1,000..	18,057	1,200	5,628	10,352
27 At mines, total.....do....	15,837	1,200	4,427	9,391
28 Underground.....do....	9,183	1,104	...	7,684
29 Strip-pits, auger mines, culm banks, and dredges.....do....	3,094	...	2,842	...
30 Surface (including mine shops and yards.....do....	3,560	96	1,585	1,707
31 At preparation plant.....do....	2,220	...	1,201	961
32 Man-hours spent on development and exploration work (included above).....do....	89	13	5	7
33 Principal expenses designated below, total.....\$1,000..	114,724	5,464	47,444	56,628
34 Wages of production and development workers.....do....	56,812	3,383	19,829	31,289
35 Salaries.....do....	9,779	288	2,893	6,371
36 Supplies.....do....	...	1,379	10,978	15,134
37 Raw coal received for preparation.....do....	39,077	...	9,480	...
38 Coal received for resale without further processing.....do....	126	7	56	9
39 Purchased fuel.....do....	1,110	70	816	26
40 Purchased electricity.....do....	6,408	266	3,228	2,705
41 Contract work.....do....	1,412	71	164	1,094
42 Purchased machinery installed.....do....	12,341	464	8,008	3,699
43 Capital expenditures, total.....do....	12,595	542	7,077	3,985
44 Development and exploration of mineral property.....do....	566	38	207	19
45 Preparation plant and other construction.....do....	3,852	63	1,676	1,572
46 New machinery and equipment.....do....	6,385	184	4,957	1,157
47 Used plant and equipment.....do....	1,792	257	237	1,237
48 Energy used.....million kwh equivalent..	1,197	33	675	375
49 Coal produced and used at same establishment.....1,000 short tons..	60	(2)	27	25
50 Fuels purchased:				
51 Coal.....do....	...	...	...	...
52 Fuel oil.....1,000 barrels..	109	1	94	1
53 Gas.....million cu. ft..	13	...	13	...
54 Other fuels.....\$1,000..	370	18	264	16
55 Undistributed.....do....	110	47	51	6
56 Electric energy purchased.....million kwh..	425	15	225	175
56 Electric energy generated and used.....do....	(D)	...	...	...

See footnotes at end of table.



for Selected Types of Operation, by Selected States: 1958—Continued

1211--Bituminous coal--Continued								
West North Central		South Atlantic						
Missouri		Virginia						
All establishments	Mines with preparation plants (strip-pit)	All establishments	Producing establishments					
			Mines only (underground)	Mines with preparation plants		Preparation plants only		
				With mechanical cleaning (underground)	With mechanical crushing, screening, or sizing only (underground)	With mechanical cleaning	With mechanical crushing, screening, or sizing only	
51	11	869	727	20	37	10	19	1
41	4	742	647	3	25	5	19	2
9	6	109	80	6	10	4	...	3
1	1	18	...	11	2	1	...	4
50	11	2,559	727	20	...	10	19	5
18	11	559	...	20	37	10	...	6
2,779	2,519	31,726	10,844	7,686	2,162	3,142	1,493	7
2,704	2,519	26,255	6,130	7,686	2,162	3,142	1,493	8
104	...	7,222	6,130	...	19	xxx	xxx	9
2,600	2,519	19,033	xxx	7,686	2,143	3,142	1,493	10
11,939	10,809	151,825	43,251	42,693	9,646	18,858	6,691	11
257	...	23,294	19,904	489	12	87	75	12
11,682	10,809	128,531	23,347	42,204	9,634	18,771	6,616	13
11,668	10,809	128,386	23,322	42,186	9,634	18,771	6,616	14
14	...	145	25	18	...	...	...	15
9,832	8,722	100,135	31,349	40,211	6,596	4,396	913	16
1,257	1,016	14,817	7,909	3,880	1,034	261	135	17
583	402	11,950	6,344	3,123	837	206	104	18
721	463	12,189	6,280	3,230	1,041	210	97	19
498	391	11,880	6,349	3,157	749	209	102	20
470	372	12,095	6,523	3,108	773	206	102	21
656	381	11,930	6,478	2,992	801	202	111	22
621	606	1,787	605	754	158	51	16	23
53	8	1,080	960	3	39	4	15	24
28	8	579	522	...	26	...	7	25
1,097	804	18,670	9,215	5,241	1,394	373	190	26
942	662	17,225	9,215	4,701	1,281	...	...	27
195	...	15,476	8,844	4,052	1,187	...	...	28
612	555	571	...	...	...	...	...	29
135	107	1,178	371	649	94	...	...	30
155	145	1,445	...	540	113	373	190	31
3	...	234	66	...	5	3	...	32
9,490	8,715	121,071	32,655	37,498	7,429	15,628	6,116	33
3,198	2,707	45,004	17,705	15,898	3,642	847	349	34
3,559	3,511	8,093	1,409	4,637	619	250	71	35
2,051	1,908	23,764	9,067	9,709	1,230	421	224	36
		29,024	...	4,255	1,627	13,840	5,324	37
		1,435	827	439	10	74	55	38
167	126	722	294	26	43	20	26	39
484	463	2,316	933	743	151	176	55	40
31	...	10,713	2,420	1,791	107	...	12	41
2,807	2,794	12,437	1,817	8,522	155	330	219	42
3,433	3,204	28,721	3,456	23,003	276	399	137	43
8	...	567	153	322	17	43	2	44
1,371	1,317	16,662	1,356	14,502	87	342	72	45
1,592	1,464	10,921	1,632	8,128	138	8	30	46
462	423	571	315	51	34	6	33	47
78	61	615	135	196	21	16	10	48
( <sup>2</sup> )	...	34	( <sup>2</sup> )	18	( <sup>2</sup> )	( <sup>2</sup> )	...	49
...	...	2	...	...	...	...	...	50
11	9	27	9	...	( <sup>2</sup> )	1	...	51
...	...	14	14	...	...	...	...	52
97	69	257	113	26	3	17	2	53
18	11	277	112	...	38	...	24	54
27	26	156	60	52	10	10	3	55
...	...	3	3	...	...	( <sup>2</sup> )	...	56

Table 3B.—Detailed Statistics for the Bituminous Coal and Lignite Industries

Item	1211—Bituminous coal—Continued								
	South Atlantic—Continued								
	West Virginia								
	Producing establishments								
	All establishments	Mines only			Mines with preparation plants				
		Strip-pit	Under-ground	Auger only and strip-pit and auger	With mechanical cleaning		With mechanical crushing, screening, or sizing only		
					Under-ground	Strip-pit and under-ground	Strip-pit	Under-ground	Strip-pit and auger
1 Number of establishments, total.....	1,704	95	1,087	51	165	12	28	107	21
2 With 0-19 employees.....	1,300	86	970	46	12	...	21	51	10
3 With 20-99 employees.....	254	9	100	5	40	5	7	51	11
4 With 100 employees and over.....	150	...	17	...	113	7	...	5	...
5 Including mines, culm banks, and dredges.....	1,638	95	1,087	51	165	12	28	107	21
6 Including preparation plants.....	444	...	...	...	165	12	28	107	21
7 Gross shipments of coal.....1,000 short tons..	147,889	2,490	24,552	2,151	81,284	5,328	1,385	7,512	2,469
8 Net shipments of coal, total.....do....	124,193	1,493	3,514	1,617	81,284	5,328	1,374	7,512	2,469
9 Raw coal sold for use without preparation.....do....	11,563	1,493	3,514	1,617	4,550	70	2	135	...
10 Prepared coal.....do....	112,630	xxx	xxx	xxx	76,734	5,258	1,372	7,377	2,469
11 Value of shipments and receipts, total.....\$1,000..	779,262	9,821	108,970	8,088	462,020	28,556	6,182	36,337	9,854
12 Raw coal transferred to other establish- ments for preparation and coal resales.....do....	104,142	3,985	90,928	5,307	45	1,126	187	639	48
13 Net shipments and receipts.....do....	675,120	5,835	18,042	2,781	461,975	27,430	5,995	35,698	9,806
14 Coal net shipments.....do....	674,478	5,835	18,001	2,781	461,975	27,430	5,987	35,676	9,806
15 Other products and services.....do....	642	...	41	...	...	...	8	22	...
16 Value added in mining.....do....	533,574	5,029	82,697	5,139	350,737	19,954	4,125	25,992	5,988
17 Number of persons engaged, total.....	63,144	801	14,331	452	36,515	2,078	465	4,077	618
18 Production and development workers, average for the year.....	54,220	628	11,746	355	31,618	1,946	406	3,664	529
19 March.....	58,692	600	12,282	295	35,199	2,146	427	3,940	492
20 May.....	53,198	626	11,518	354	30,994	1,929	450	4,335	534
21 August.....	52,040	637	11,579	370	29,714	2,055	415	3,484	524
22 November.....	53,322	630	12,068	380	30,565	1,979	348	3,608	514
23 Other employees.....	7,414	87	1,407	47	4,888	130	41	337	80
24 Proprietors and firm members.....	1,510	86	1,178	50	9	4	18	76	9
25 Performing manual labor.....	697	31	565	27	3	1	10	37	1
26 Man-hours worked by production and development workers, total.....1,000..	89,663	1,163	19,233	366	52,155	3,474	670	6,218	982
27 At mines, total.....do....	81,371	1,163	19,233	608	46,620	3,096	603	5,820	896
28 Underground.....do....	69,734	...	18,225	...	41,509	2,444	...	5,324	...
29 Strip pits, auger mines, culm banks, and dredges.....do....	4,013	1,124	...	576	...	248	576	...	821
30 Surface (including mine shops and yards).....do....	7,624	39	1,008	32	5,111	404	27	496	75
31 At preparation plant.....do....	8,292	...	...	...	5,535	378	67	398	86
32 Man-hours spent on development and exploration work (included above).....do....	1,050	22	98	3	428	28	74	...	...
33 Principal expenses designated below, total.....\$1,000..	566,517	8,186	79,797	4,835	317,342	22,042	4,190	28,656	6,735
34 Wages of production and development workers.....do....	261,052	2,709	44,729	1,707	165,948	11,155	1,760	15,902	2,484
35 Salaries.....do....	46,317	391	7,376	286	32,514	999	237	1,820	396
36 Supplies.....do....	118,074	3,047	19,720	1,133	77,392	6,309	1,087	5,874	1,685
37 Raw coal received for preparation.....do....	100,547	...	...	...	26,121	733	280	3,437	523
38 Coal received for resale without further processing.....do....	4,136	40	1,519	142	41	...	130	546	18
39 Purchased fuel.....do....	3,624	802	340	379	286	164	282	280	402
40 Purchased electricity.....do....	17,578	261	2,964	62	11,589	625	42	701	27
41 Contract work.....do....	15,189	936	3,149	1,126	3,451	2,057	372	96	1,200
42 Purchased machinery installed.....do....	41,921	345	4,649	506	27,870	2,809	361	1,899	436
43 Capital expenditures, total.....do....	55,381	639	6,068	399	35,467	4,095	497	2,488	425
44 Development and exploration of mineral property.....do....	3,125	51	226	9	2,072	107	164	119	12
45 Preparation plant and other construction.....do....	21,416	312	1,943	101	12,870	2,229	79	845	33
46 New machinery and equipment.....do....	28,914	254	3,434	226	19,616	1,692	221	1,070	379
47 Used plant and equipment.....do....	1,926	22	465	63	709	67	33	454	1
48 Energy used.....million kwh equivalent..	3,123	228	336	94	1,753	87	68	124	91
49 Coal produced and used at same establishment.....1,000 short tons..	98	...	1	( <sup>2</sup> )	85	( <sup>2</sup> )	...	1	...
50 Fuels purchased:									
51 Coal.....do....	...	...	...	...	...	...	...	...	...
52 Fuel oil.....1,000 barrels..	190	26	17	15	11	13	22	7	29
53 Gas.....million cu. ft..	172	...	1	...	166	1	...	...	...
54 Other fuels.....\$1,000..	963	48	229	61	122	66	48	125	108
55 Undistributed.....do....	1,120	604	...	196	7	20	64	107	47
56 Electric energy purchased.....million kwh..	1,473	21	242	4	998	44	2	46	2
Electric energy generated and used.....do....	14	...	5	( <sup>2</sup> )	3	( <sup>2</sup> )	...	6	...

See footnotes at end of table.



for Selected Types of Operation, by Selected States: 1958—Continued

1211—Bituminous coal—Continued												
South Atlantic—Continued			East South Central									
West Virginia—Continued			Kentucky									
Producing establishments—Con.			Producing establishments									
Preparation plants only		All estab- lish- ments	Mines only			Mines with preparation plants				Preparation plants only		
With mechanical cleaning	With mechanical crushing, screening, or sizing only <sup>1</sup>		Strip-pit	Underground	Auger only and strip-pit and auger	With mechanical cleaning		With mechanical crushing, screening, or sizing only		With mechanical cleaning	With mechanical crushing, screening, or sizing only	
						Strip-pit	Underground	Strip-pit	Underground			
15	66	1,306	63	936	49	14	62	14	91	9	39	1
8	63	1,074	54	843	43	1	5	10	53	5	38	2
6	3	162	4	87	5	6	18	4	26	3	1	3
1	...	70	...	6	1	7	39	...	12	1	...	4
...	...	1,258	63	936	49	14	62	14	91	9	39	5
15	51	252	...	...	...	14	62	14	91	...	...	6
8,363	5,298	83,860	2,613	17,445	4,580	11,062	24,073	1,485	7,481	7,133	3,284	7
8,363	5,298	66,671	1,549	5,261	1,024	11,062	24,073	1,485	7,123	7,133	3,284	8
xxx	xxx	9,669	1,549	5,261	1,024	1	498	34	1,069	xxx	xxx	9
8,363	5,298	57,002	xxx	xxx	...	11,061	23,575	1,451	6,054	7,133	3,284	10
52,788	24,548	362,887	8,104	67,610	19,430	37,099	113,519	5,140	34,749	41,722	14,826	11
1,003	441	69,995	3,156	47,198	15,677	42	463	...	1,480	159	296	12
51,785	24,107	292,892	4,948	20,412	3,753	37,057	113,056	5,140	33,269	41,563	14,530	13
51,785	24,107	292,696	4,945	20,407	3,753	37,057	113,056	5,140	33,267	41,563	14,516	14
...	...	196	3	5	...	...	...	...	2	...	14	15
7,988	3,966	227,458	5,228	48,304	14,586	28,994	83,568	4,094	23,302	3,633	2,226	16
495	477	29,871	494	10,355	1,239	1,154	10,167	238	3,983	371	294	17
422	373	25,329	407	8,330	1,017	1,028	8,973	180	3,512	310	239	18
419	321	26,356	387	8,294	985	987	9,821	181	3,794	316	244	19
418	322	24,810	385	8,132	1,020	1,023	8,987	175	3,319	317	241	20
418	344	24,836	395	8,443	1,033	1,043	8,516	189	3,373	306	249	21
430	352	25,674	462	8,685	1,053	1,052	8,579	179	3,632	303	241	22
73	83	3,068	37	911	199	85	1,157	44	370	61	35	23
...	21	1,474	50	1,114	23	41	37	14	101	...	20	24
...	10	604	30	445	15	5	14	8	53	...	13	25
677	654	39,842	712	11,983	1,817	2,088	14,653	337	5,246	544	337	26
...	...	36,194	712	11,983	1,817	1,639	13,085	282	4,872	...	...	27
...	...	29,690	...	11,522	1,189	...	11,607	...	4,294	...	...	28
...	...	3,122	632	...	458	1,240	...	245	...	...	...	29
...	...	3,382	80	461	170	399	1,478	37	578	...	...	30
677	654	3,648	...	...	...	449	1,568	55	374	544	337	31
101	7	257	8	64	...	1	45	...	11	68	...	32
48,464	22,549	257,678	4,944	48,671	10,923	15,336	80,794	2,412	26,590	40,164	13,704	33
2,086	1,363	106,066	1,866	25,855	5,219	7,320	43,242	945	13,133	1,693	803	34
566	270	15,655	198	3,136	1,241	746	6,813	121	2,026	333	164	35
2,507	305	52,481	1,277	15,261	2,668	4,779	21,604	569	4,035	141	443	36
41,188	19,972	62,803	...	...	...	...	4,412	468	6,298	37,499	11,869	37
938	292	1,709	54	173	18	41	418	...	83	142	244	38
179	60	2,362	492	243	307	408	134	196	105	49	66	39
502	149	8,622	142	2,398	217	1,065	3,171	8	706	327	100	40
498	138	7,980	915	1,605	1,253	977	1,000	105	204	30	15	41
575	53	18,359	237	3,247	1,328	4,795	4,569	397	1,185	400	15	42
1,587	387	18,887	241	3,621	947	3,960	5,357	697	1,169	449	152	43
1	4	1,047	6	70	6	149	161	5	43	449	4	44
1,383	79	6,311	99	1,962	89	1,255	1,354	468	470	...	55	45
200	86	10,289	84	1,403	768	2,130	3,574	206	530	404	83	46
3	14	1,240	52	186	84	426	268	18	126	45	10	47
80	24	1,497	131	212	99	187	306	53	73	43	22	48
...	...	31	...	1	2	...	9	...	1	18	...	49
...	...	...	...	...	...	...	...	...	...	...	...	50
16	...	186	16	7	9	43	4	20	5	3	(2)	51
...	...	35	...	10	...	...	...	...	...	24	...	52
3	...	720	174	117	38	109	47	16	36	6	26	53
...	60	777	208	68	163	60	61	59	39	14	38	54
52	9	557	8	151	18	72	203	(2)	37	26	6	55
...	...	2	...	1	...	...	...	(D)	(2)	...	...	56

Table 3B.—Detailed Statistics for the Bituminous Coal and Lignite Industries

Item		1211—Bituminous coal—Continued						
		East South Central—Continued						
		Tennessee			Alabama			
		All establishments	Producing establishments		All establishments	Producing mines with preparation plants		
			Mines only (underground)	Mines with preparation plants (underground)		With mechanical cleaning	With mechanical crushing, screening, or sizing only (underground)	
						Strip-pit	Underground	
1	Number of establishments, total.....	277	181	25	147	11	22	14
2	With 0-19 employees.....	251	171	15	107	6	5	9
3	With 20-99 employees.....	22	9	7	25	5	5	3
4	With 100 employees and over.....	4	1	3	15	...	12	2
5	Including mines, culm banks, and dredges.....	269	181	25	142	11	22	14
6	Including preparation plants.....	50	...	25	60	...	...	14
7	Gross shipments of coal.....1,000 short tons..	6,626	1,991	1,753	13,548	1,109	8,177	1,203
8	Net shipments of coal, total.....do....	6,304	1,873	1,749	11,761	1,069	8,177	1,203
9	Raw coal sold for use without preparation.....do....	3,208	1,873	187	272	...	...	7
10	Prepared coal.....do....	3,096	xxx	1,562	11,489	1,069	8,177	1,196
11	Value of shipments and receipts, total.....\$1,000..	29,123	7,617	10,091	85,186	5,409	55,106	10,403
12	Raw coal transferred to other establishments for preparation and coal resales.....do....	3,663	515	2,353	6,924	139	...	11
13	Net shipments and receipts.....do....	25,460	7,102	7,738	78,262	5,270	55,106	10,392
14	Coal net shipments.....do....	25,384	7,089	7,735	78,185	5,270	55,048	10,392
15	Other products and services.....do....	76	13	3	77	...	58	...
16	Value added in mining.....do....	16,575	5,129	5,424	58,799	3,739	39,046	8,578
17	Number of persons engaged, total.....	3,015	1,459	875	7,569	358	5,119	906
18	Production and development workers, average for the year.....	2,416	1,132	763	6,622	320	4,509	812
19	March.....	2,335	1,026	837	6,877	344	4,733	845
20	May.....	2,268	1,051	703	6,630	315	4,568	858
21	August.....	2,418	1,106	764	6,639	317	4,569	784
22	November.....	2,531	1,223	755	6,326	309	4,165	805
23	Other employees.....	245	115	72	831	35	601	83
24	Proprietors and firm members.....	354	212	40	116	3	9	11
25	Performing manual labor.....	196	108	33	62	1	4	4
26	Man-hours worked by production and development workers, total.....1,000..	3,509	1,442	1,222	10,273	563	7,102	177
27	At mines, total.....do....	3,272	1,442	1,137	9,444	443	6,534	1,117
28	Underground.....do....	2,345	1,328	1,602	7,244	...	5,716	961
29	Strip pits, auger mines, culm banks, and dredges.....do....	682	...	...	1,080	348	...	...
30	Surface (including mine shops and yards).....do....	245	114	135	1,120	95	818	156
31	At preparation plant.....do....	237	...	85	829	120	568	60
32	Man-hours spent on development and exploration work (included above).....do....	37	4	30	19	7	6	...
33	Principal expenses designated below, total.....\$1,000..	22,574	6,424	8,389	61,514	3,579	41,162	5,601
34	Wages of production and development workers.....do....	8,574	3,381	3,210	28,821	1,631	20,391	3,193
35	Salaries.....do....	1,054	281	549	6,590	238	5,254	616
36	Supplies.....do....	5,360	2,106	1,802	13,716	734	8,291	1,290
37	Raw coal received for preparation.....do....	3,111	...	545	6,750	157	3,963	233
38	Coal received for resale without further processing.....do....	2,188	79	2,058	25	...	...	7
39	Purchased fuel.....do....	656	59	28	815	185	195	26
40	Purchased electricity.....do....	490	288	134	2,339	56	1,599	289
41	Contract work.....do....	1,141	230	63	2,458	578	1,469	1
42	Purchased machinery installed.....do....	1,778	220	531	4,274	292	3,512	84
43	Capital expenditures, total.....do....	2,176	494	494	3,990	332	2,969	108
44	Development and exploration of mineral property.....do....	137	...	45	41	1	16	...
45	Preparation plant and other construction.....do....	460	231	44	710	39	503	24
46	New machinery and equipment.....do....	1,442	201	404	3,075	292	2,390	73
47	Used plant and equipment.....do....	137	62	1	164	...	60	11
48	Energy used.....million kwh equivalent..	215	35	20	632	51	371	33
49	Coal produced and used at same establishment.....1,000 short tons..	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	15	...	15	...
50	Fuels purchased:							
51	Coal.....do....	...	...	...	6	...	( <sup>2</sup> )	( <sup>2</sup> )
52	Fuel oil.....1,000 barrels..	39	1	2	73	18	27	3
53	Gas.....million cu. ft..	...	...	...	80	...	80	...
54	Other fuels.....\$1,000..	53	9	3	124	37	43	8
55	Undistributed.....do....	386	41	17	178	26	2	1
56	Electric energy purchased.....million kwh..	39	21	12	245	5	173	26
56	Electric energy generated and used.....do....	1	( <sup>2</sup> )	( <sup>2</sup> )	...	...	...	...

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>Includes data for 15 nonproducing establishments.<sup>2</sup>Less than one-half of the unit of measure specified.



for Selected Types of Operation, by Selected States: 1958—Continued

1211—Bituminous coal—Continued							1212—Lignite industry		
West South Central		Mountain					All establishments	Strip-pits	
Oklahoma		Colorado		Utah				All strip-pits	With mechanical crushing, screening, or sizing only
All establishments	Producing mines with mechanical crushing, screening, or sizing only (strip-pit)	All establishments	Mines with mechanical crushing, screening, or sizing only (underground)	All establishments	Underground mines with mechanical cleaning and mechanical cleaning plants only	Underground mines only and underground mines with mechanical crushing, screening, or sizing only			
31	8	105	49	35	6	29	58	47	23
21	1	84	32	18	...	18	50	39	16
8	7	18	14	11	3	8	7	7	6
2	...	3	3	6	3	3	1	1	1
	8	103	48	35	6	29	58	47	23
	8	58	48	35	6	29	24	23	23
1,657	1,204	3,225	2,458	6,843	2,622	3,071	4,231	4,207	3,908
1,657	1,204	3,121	2,358	5,293	2,622	2,671	4,231	4,207	3,908
207	...	344	29	52	...	52	336	312	13
1,450	1,204	2,777	2,329	5,241	2,622	2,619	3,895	3,895	3,895
11,327	7,547	19,698	16,255	49,738	28,198	21,540	11,035	10,934	10,148
18	...	540	499	13,305	...	13,305	...	...	...
11,309	7,547	19,158	15,719	36,433	28,198	8,235	11,035	10,934	10,148
11,286	7,526	19,129	15,719	36,293	28,068	8,225	11,021	10,923	10,142
23	21	29	...	140	130	10	14	11	6
8,537	5,219	16,348	13,722	25,376	8,762	16,614	9,309	9,232	8,715
836	311	2,151	1,734	2,863	1,405	1,458	567	537	451
746	278	1,800	1,493	2,467	1,244	1,223	437	421	368
709	290	1,929	1,560	2,553	1,202	1,351	459	437	389
690	263	1,678	1,408	2,405	1,232	1,173	396	386	331
712	254	1,637	1,345	2,406	1,260	1,146	398	383	332
879	306	1,986	1,637	2,522	1,281	1,241	508	486	432
61	28	216	181	357	161	196	73	72	65
29	5	135	60	39	...	39	57	44	18
9	...	90	45	24	...	24	38	28	8
1,409	562	2,807	2,385	4,025	1,962	2,063	844	822	711
1,318	495	2,598	2,201	3,687	1,682	2,005	583	568	457
714	...	2,137	1,884	3,187	1,531	1,656	21	...	...
459	423	111	...	...	...	...	435	435	329
145	72	350	317	500	151	349	127	133	128
91	67	209	184	338	280	58	261	254	254
2	2	41	39	205	196	9	16	16	16
7,352	4,132	13,442	11,144	41,354	27,773	13,581	4,329	4,265	3,726
3,921	1,624	8,359	7,161	12,933	6,417	6,516	2,261	2,224	2,010
384	217	1,269	1,124	2,574	629	1,945	432	431	392
1,826	1,307	2,947	2,232	20,360	17,451	2,909	1,133	1,107	918
...	...	...	...	...	...	...	...	...	...
15	...	9	4	451	15	436	...	...	...
194	161	148	86	135	58	77	210	210	138
258	172	474	359	849	478	371	260	260	255
754	651	236	178	4,052	2,725	1,327	33	33	13
370	292	884	709	3,407	1,731	1,676	1,522	1,522	1,519
627	255	1,348	1,035	4,892	3,022	1,870	1,432	1,430	1,410
53	31	193	187	132	...	132	74	74	74
122	103	252	134	3,194	2,387	807	69	69	67
381	61	626	503	1,515	606	909	1,236	1,234	1,218
71	60	277	211	51	29	22	53	53	51
77	55	143	111	191	115	68	111	111	83
(2)	...	10	9	10	7	3	1	1	1
...	...	(2)	(2)	...	...	...	...	...	...
15	14	8	2	9	3	6	14	14	10
3	...	...	...	...	...	...	21	21	21
66	47	37	23	75	44	31	88	88	63
39	33	66	54	17	...	17	34	34	10
23	14	26	19	76	45	31	42	42	42
...	...	(2)	(2)	...	...	...	...	...	...

Table 4A.—Selected Statistics for Establishments Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
1211	BITUMINOUS COAL:											
	Number of establishments.....	6,715	2,899	1,338	1,136	679	251	244	121	46	1	...
	All employees:											
	Number.....	<u>1185,676</u>	5,711	8,827	15,304	20,676	17,718	38,986	41,585	<u>31,114</u>	(D)	...
	Payroll.....\$1,000..	<u>1902,759</u>	16,441	26,340	49,043	83,478	83,986	211,583	226,167	<u>165,570</u>	(D)	...
	Production and development workers:											
	Number.....	161,711	5,302	7,582	13,720	18,690	15,754	35,258	37,300	<u>28,105</u>	(D)	...
	Man-hours.....1,000..	264,308	9,162	10,613	20,668	30,779	26,542	59,059	62,545	<u>44,940</u>	(D)	...
	Wages.....\$1,000..	751,584	15,154	22,953	43,860	73,976	73,504	185,619	194,164	<u>142,354</u>	(D)	...
	Value added in mining.....do..	1,585,541	35,211	51,701	94,402	160,945	154,428	387,766	407,350	<u>293,738</u>	(D)	...
	Value of shipments and receipts.....do..	2,390,677	66,277	93,269	169,499	281,479	252,735	592,316	552,865	<u>382,237</u>	(D)	...
	Capital expenditures.....do..	183,967	9,487	5,610	14,193	21,987	30,436	35,733	50,561	<u>15,960</u>	(D)	...
	Number of producing establishments, by type of operation, total.....	6,669	2,863	1,333	1,134	677	250	244	121	46	1	...
	Mines only:											
	Strip-pit.....	737	396	159	122	53	5	1	1	...	...	...
	Underground.....	3,926	2,047	893	625	264	54	22	15	6	...	...
	Auger.....	116	71	27	13	5	...	...	...	...	...	...
	Combination:											
	Strip-pit and underground.....	23	10	3	7	2	1	...	...	...	...	...
	Strip-pit and auger.....	44	8	8	15	9	3	1	...	...	...	...
	Underground and auger..	9	5	1	...	2	...	...	...	1	...	...
	Underground and culm...	2	1	...	...	...	1	...	...	...	...	...
	Strip-pit and culm-bank.....	2	...	...	2	...	...	...	...	...	...	...
	Other combination (strip-pit, underground, auger, and culm-bank)...	3	...	...	2	1	...	...	...	...	...	...
	Mines with preparation plants:											
	With mechanical cleaning:											
	Strip-pit:											
	Coarse sizes.....	107	2	2	14	28	29	31	1	...	...	...
	Fine sizes only.....	5	1	...	2	1	1	...	...	...	...	...
	Underground:											
	Coarse sizes.....	371	7	11	14	43	55	129	80	31	1	...
	Fine sizes only.....	29	3	1	4	5	2	4	5	5	...	...
	Auger:											
	Coarse sizes.....	2	...	...	2	...	...	...	...	...	...	...
	Fine sizes only.....	1	...	...	1	...	...	...	...	...	...	...
	Combination:											
	Strip and underground	22	...	1	1	4	6	7	2	1	...	...
	Strip and auger.....	11	1	...	2	4	2	2	...	...	...	...
	Underground and auger	10	...	...	...	1	1	5	2	1	...	...
	Culm-bank.....	2	1	1	...	...	...	...	...	...	...	...
	Underground and culm-bank.	3	...	...	...	...	...	1	2	...	...	...
	Strip-pit and culm-bank.	1	...	...	...	...	1	...	...	...	...	...
	Strip-pit, underground, auger, and culm-bank.	6	...	1	...	...	3	1	1	...	...	...
	Dredge.....	4	3	1	...	...	...	...	...	...	...	...
	With mechanical crushing, screening, or sizing only:											
	Strip-pit:											
	With crushing.....	254	38	48	75	73	16	4	...	...	...	...
	With screening or sizing only.....	77	33	11	18	10	5	...	...	...	...	...
	Underground:											
	With crushing.....	309	49	46	60	80	42	22	9	1	...	...
	With screening or sizing only.....	274	100	50	71	39	6	6	2	...	...	...
	Auger.....	20	4	2	9	5	...	...	...	...	...	...
	Combination:											
	Strip and underground	25	6	...	9	7	3	...	...	...	...	...
	Strip and auger.....	47	3	5	17	16	6	...	...	...	...	...
	Underground and auger	6	...	1	3	1	1	...	...	...	...	...
	Other combinations...	11	...	1	2	4	1	3	...	...	...	...

See footnotes at end of table.



Table 4A.—Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
	BITUMINOUS COAL—Continued											
	Number of producing estab- lishments, by type of operation—Continued											
	Preparation plants only:											
	Mechanical cleaning:											
	Coarse sizes only.....	8	1	4	2	1	...	...	...	...	...	...
	Coarse sizes with screening and sizing..	4	...	...	2	2	...	...	...	...	...	...
	Coarse sizes with crushing.....	12	1	3	6	2	...	...	...	...	...	...
	Coarse and fine sizes..	32	1	5	6	9	5	5	1	...	...	...
	Fine sizes only.....	3	1	2	...	...	...	...	...	...	...	...
	Other preparation only:											
	Crushing only.....	34	19	11	1	2	1	...	...	...	...	...
	Crushing and screening or sizing.....	80	32	24	21	3	...	...	...	...	...	...
	Screening or sizing only.....	37	19	11	6	1	...	...	...	...	...	...
1212	LIGNITE:											
	Number of establishments.....	58	40	7	3	7	...	1	...	...	...	...
	All employees:											
	Number.....	510	50	44	40	376	...	(D)	...	...	...	...
	Payroll.....\$1,000..	2,693	147	191	184	2,171	...	(D)	...	...	...	...
	Production and develop- ment workers:											
	Number.....	437	47	39	34	317	...	(D)	...	...	...	...
	Man-hours.....1,000..	844	71	73	67	633	...	(D)	...	...	...	...
	Wages.....\$1,000..	2,261	137	165	155	1,804	...	(D)	...	...	...	...
	Value added in mining....do..	9,309	601	342	403	7,963	...	(D)	...	...	...	...
	Value of shipments and receipts.....do..	11,035	670	450	538	9,377	...	(D)	...	...	...	...
	Capital expenditures.....do..	1,433	163	4	213	1,053	...	(D)	...	...	...	...
	Number of producing estab- lishments, by type of operation, total.....	58	40	7	3	7	...	1	...	...	...	...
	Mines only:											
	Strip-pit.....	24	19	4	...	1	...	...	...	...	...	...
	Underground.....	11	11	...	...	...	...	...	...	...	...	...
	Strip-pit mines with mechanical crushing, screening, or sizing only.	23	10	3	3	6	...	1	...	...	...	...
1213	COAL STRIPPING SERVICES, NEC:											
	Number of establishments.....	137	59	30	r30	r17	1	...	...	...	...	...
	All employees:											
	Number.....	1,300	105	208	366	621	(D)	...	...	...	...	...
	Payroll.....\$1,000..	6,373	421	861	1,958	3,133	(D)	...	...	...	...	...
	Production and develop- ment workers:											
	Number.....	1,180	97	202	341	540	(D)	...	...	...	...	...
	Man-hours.....1,000..	2,106	168	381	689	868	(D)	...	...	...	...	...
	Wages.....\$1,000..	5,615	392	838	1,740	2,645	(D)	...	...	...	...	...
	Value added in mining....do..	13,409	1,758	2,098	3,817	5,736	(D)	...	...	...	...	...
	Value of shipments and receipts.....do..	19,162	2,505	3,199	5,450	8,008	(D)	...	...	...	...	...
	Capital expenditures.....do..	2,600	349	647	702	902	(D)	...	...	...	...	...
1214	COAL MINING SERVICES, NEC:											
	Number of establishments.....	20	12	4	2	1	...	1	...	...	...	...
	All employees:											
	Number.....	220	10	31	179	(D)	...	(D)	...	...	...	...
	Payroll.....\$1,000..	959	33	105	821	(D)	...	(D)	...	...	...	...
	Production and develop- ment workers:											
	Number.....	205	10	28	167	(D)	...	(D)	...	...	...	...
	Man-hours.....1,000..	441	20	54	367	(D)	...	(D)	...	...	...	...
	Wages.....\$1,000..	904	33	104	767	(D)	...	(D)	...	...	...	...
	Value added in mining....do..	1,705	137	246	1,322	(D)	...	(D)	...	...	...	...
	Value of shipments and receipts.....do..	2,487	229	394	1,864	(D)	...	(D)	...	...	...	...
	Capital expenditures.....do..	196	3	89	104	(D)	...	(D)	...	...	...	...

D Withheld to avoid disclosing figures for individual companies. <sup>r</sup>Revised.<sup>1</sup>Includes figures for separately reported central offices and related facilities. These were not distributed by employment size.

Table 4B.—Number of Establishments Classified by Employment Size, by Divisions and States: 1958

Ind. code	Industry, division, and State	All establish- ments, total	Establishments with an average of--									
			No employees	1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees
12	Bituminous coal and lignite mining, total.....	6,930	432	2,578	1,379	1,170	705	252	246	121	46	1
1211	Bituminous coal.....	6,715	400	2,499	1,338	1,136	679	251	244	121	46	1
1212	Lignite.....	58	15	25	7	3	7	...	1	...	...	...
1213 and 1214	Coal services, nec.....	157	17	54	34	31	19	1	1	...	...	...
	<u>Division and State</u>											
	Middle Atlantic (Pennsylvania), total.....	1,373	124	578	230	208	132	28	38	19	15	1
1211	Bituminous coal.....	1,312	123	553	218	192	126	28	37	19	15	1
1213 and 1214	Coal services, nec.....	61	1	25	12	16	6	...	1	...	...	...
	East North Central, total.....	626	43	176	102	103	95	38	49	15	5	...
1211	Bituminous coal.....	612	40	170	99	102	94	38	49	15	5	...
1213 and 1214	Coal services, nec.....	14	3	6	3	1	1	...	...	...	...	...
	Ohio, total.....	394	29	131	61	76	58	20	13	5	1	...
1211	Bituminous coal.....	383	29	125	58	75	57	20	13	5	1	...
1213 and 1214	Coal services, nec.....	11	...	6	3	1	1	...	...	...	...	...
	Indiana, total.....	91	7	24	16	10	13	8	9	4	...	...
1211	Bituminous coal.....	88	4	24	16	10	13	8	9	4	...	...
1214	Coal mining services, nec..	3	3	...	...	...	...	...	...	...	...	...
	Illinois:											
1211	Bituminous coal.....	141	7	21	25	17	24	10	27	6	4	...
	West North Central, total.....	176	40	60	38	17	12	8	1	...	...	...
1211	Bituminous coal.....	130	26	43	31	15	6	8	1	...	...	...
1212	Lignite.....	43	13	15	7	2	6	...	...	...	...	...
1213 and 1214	Coal services, nec.....	3	1	2	...	...	...	...	...	...	...	...
	Iowa, total.....	62	10	22	18	10	1	1	...	...	...	...
1211	Bituminous coal.....	59	9	20	18	10	1	1	...	...	...	...
1213 and 1214	Coal services, nec.....	3	1	2	...	...	...	...	...	...	...	...
1211	Missouri (Bituminous coal)...	51	11	16	11	3	3	6	1	...	...	...
1212	North Dakota (Lignite).....	40	11	15	7	1	6	...	...	...	...	...
1212	South Dakota (Lignite).....	3	2	...	...	1	...	...	...	...	...	...
1211	Kansas (Bituminous coal).....	20	6	7	2	2	2	1	...	...	...	...
	South Atlantic, total.....	2,708	84	986	598	496	266	110	92	58	18	...
1211	Bituminous coal.....	2,655	81	971	581	486	259	109	92	58	18	...
1213 and 1214	Coal services, nec.....	53	3	15	17	10	7	1	...	...	...	...
	Maryland, total.....	80	5	38	16	16	4	1	...	...	...	...
1211	Bituminous coal.....	77	4	38	15	15	4	1	...	...	...	...
1213	Coal stripping services, nec.....	3	1	...	1	1	...	...	...	...	...	...
	Virginia, total.....	873	28	287	233	196	86	25	11	6	1	...
1211	Bituminous coal.....	869	27	287	233	195	85	24	11	6	1	...
1213	Coal stripping services, nec.....	4	1	...	...	1	1	...	...	...	...	...
	West Virginia, total.....	1,750	51	657	348	284	176	84	81	52	17	...
1211	Bituminous coal.....	1,704	50	642	332	276	170	84	81	52	17	...
1213 and 1214	Coal services, nec.....	46	1	15	16	8	6	...	...	...	...	...
1211	Georgia (Bituminous coal)...	5	...	4	1	...	...	...	...	...	...	...
	East South Central, total.....	1,746	98	654	376	316	161	52	58	25	6	...
1211	Bituminous coal.....	1,730	95	649	375	313	157	52	58	25	6	...
1213 and 1214	Coal services, nec.....	16	3	5	1	3	4	...	...	...	...	...
	Kentucky, total.....	1,314	66	506	273	234	122	43	50	17	3	...
1211	Bituminous coal.....	1,306	66	503	272	233	119	43	50	17	3	...
1213 and 1214	Coal services, nec.....	8	...	3	1	1	3	...	...	...	...	...



Table 4B.—Number of Establishments Classified by Employment Size, by Divisions and States: 1958—Continued

Ind. code	Industry, division, and State	All establish- ments, total	Establishments with an average of--									
			No employees	1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees
	East South Central—Continued											
1211	Tennessee, total.....	281	25	115	67	47	19	4	4	...	...	...
1213	Bituminous coal.....	277	24	113	67	47	18	4	4	...	...	...
	Coal stripping services, nec.....	4	1	2	...	...	1	...	...	...	...	...
1211	Alabama, total.....	151	7	33	36	35	20	5	4	8	3	...
1213	Bituminous coal.....	147	5	33	36	33	20	5	4	8	3	...
	Coal stripping services, nec.....	4	2	...	...	2	...	...	...	...	...	...
1211	West South Central, total.....	67	15	21	8	7	11	2	2	1	...	...
1212	Bituminous coal.....	60	13	20	7	6	10	2	1	1	...	...
1213	Lignite.....	3	...	1	...	...	1	...	1	...	...	...
and 1214	Coal services, nec.....	4	2	...	1	1	...	...	...	...	...	...
1211	Arkansas: Bituminous coal.....	29	6	12	5	2	4	...	...	...	...	...
1211	Oklahoma, total.....	35	9	8	3	5	6	2	1	1	...	...
1213	Bituminous coal.....	31	7	8	2	4	6	2	1	1	...	...
and 1214	Coal services, nec.....	4	2	...	1	1	...	...	...	...	...	...
1212	Texas (Lignite).....	3	...	1	...	...	1	...	1	...	...	...
1211	Mountain, total.....	221	28	97	26	22	25	13	5	3	2	...
1212	Bituminous coal.....	203	22	87	26	21	24	13	5	3	2	...
1213	Lignite.....	12	2	9	...	1	...	...	...	...	...	...
and 1214	Coal services, nec.....	6	4	1	...	...	1	...	...	...	...	...
1211	Montana, total.....	33	7	21	2	1	1	1	...	...	...	...
1212	Bituminous coal.....	18	3	11	2	...	1	1	...	...	...	...
1213	Lignite.....	12	2	9	...	1	...	...	...	...	...	...
and 1214	Coal services, nec.....	3	2	1	...	...	...	...	...	...	...	...
1211	Idaho (Bituminous coal).....	1	1	...	...	...	...	...	...	...	...	...
1211	Wyoming, total.....	23	3	7	4	2	3	3	1	...	...	...
1213	Bituminous coal.....	20	1	7	4	2	2	3	1	...	...	...
and 1214	Coal services, nec.....	3	2	...	...	...	1	...	...	...	...	...
1211	Colorado (Bituminous coal)...	105	14	50	9	11	14	4	1	2	...	...
1211	New Mexico (Bituminous coal)	22	2	9	8	2	...	1	...	...	...	...
1211	Arizona (Bituminous coal)....	2	...	...	1	1	...	...	...	...	...	...
1211	Utah (Bituminous coal).....	35	1	10	2	5	7	4	3	1	2	...
1211	Pacific (Washington): Bituminous coal.....	13	...	6	1	1	3	1	1	...	...	...

Table 5.—Industry-Product Analysis, Summary of Industry Shipments and Receipts and Net Shipments of Primary Products for the United States: 1958 and 1954

Ind. code	Industry and year	Value of shipments and receipts of establishments classified in the industry					Value of net shipments of primary products of the industry shipped by establishments in all industries or receipts for primary services by all industries		
		Total	Primary products or services	Secondary products	Receipts for services	Products purchased and resold without further processing	Total (produced or received in all industries)	Produced or received in this industry	Produced or received in other industries
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1211	Bituminous coal.....1958..	2,390,677	2,363,691	3,119	1,068	<sup>1</sup> 22,799	2,055,042	2,054,607	435
	.....1954..	2,040,200	<sup>2</sup> 2,035,794	3,146	1,260	( <sup>2</sup> )	<sup>3</sup> 1,774,495	1,773,930	<sup>3</sup> 565
1212	Lignite.....1958..	11,035	11,021	...	14	...	11,021	11,021	...
	.....1954..	10,387	10,330	33	24	...	10,330	10,330	...
1213	Coal stripping services, nec.....1958..	19,162	19,112	...	18	32	19,123	19,112	11
	.....1954..	15,960	(NA)	...	(NA)	(NA)	15,743	(NA)	(NA)
1214	Coal mining services, nec.....1958..	2,487	2,262	...	207	18	2,414	2,262	152
	.....1954..	1,636	(NA)	...	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup>Represents 5,485 thousand short tons of coal purchased and resold without further processing. <sup>2</sup>Coal purchased and resold without further processing is included with shipments of primary products of the industry. <sup>3</sup>Revised to exclude production from State-owned or State-operated mines, amounting to 142 thousand short tons valued at \$488 thousand. Such operations are not in the scope of the Censuses and no data were obtained in 1958 for such mines.

Table 6A.—Primary Products and Services of the Bituminous Coal and Lignite Mining Industries

(For net production of coal by State and method of mining, see table)

Division and State	Net coal shipments <sup>1</sup>				1958			
	1958		1954 <sup>2</sup>		Raw coal shipped (including interplant transfers)			
					For use without preparation		For preparation at other establishments	
	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)
<b>BITUMINOUS COAL</b>								
1 United States and Alaska, total.....	417,075	2,062,140	387,840	1,780,940	(D)	(D)	76,712	309,533
2 United States, total.....	416,313	2,055,042	387,177	1,774,495	57,168	237,984	76,657	309,084
<u>Division and State</u>								
3 Middle Atlantic (Pennsylvania)...	69,617	380,374	71,729	381,089	13,403	58,023	14,801	62,153
4 East North Central, total.....	93,338	373,308	90,533	345,118	10,146	36,890	11,089	34,572
5 Ohio.....	33,970	138,309	32,577	119,255	6,577	23,751	6,899	22,598
6 Indiana.....	15,059	58,116	16,055	65,816	2,645	9,371	4,190	11,974
7 Illinois.....	44,309	176,883	41,901	160,047	924	3,768		
8 West North Central, total.....	4,572	18,839	5,093	20,074	437	1,837	373	1,137
9 Iowa.....	1,261	4,520	1,198	4,509	295	1,170	373	1,137
10 Missouri.....	3,311	14,319	3,895	15,565	104	497		
11 Kansas.....					38	170		
12 South Atlantic, total.....	151,349	806,869	133,672	630,595	19,193	86,992	29,298	121,397
13 Maryland.....	889	3,952	431	1,942	396	1,877	131	556
14 Virginia.....	26,255	128,386	15,367	71,987	7,222	28,278	5,471	21,736
15 West Virginia.....	124,193	674,478	117,865	556,623	11,565	56,784	23,696	99,105
16 Georgia.....	12	53	9	43	12	53	...	...
17 East South Central, total.....	84,736	396,265	70,839	315,422	13,149	49,319	19,298	76,008
18 Kentucky.....	66,671	292,696	53,996	222,336	9,669	35,937	17,189	67,961
19 Tennessee.....	6,304	25,384	6,322	25,446	3,208	12,285	322	1,161
20 Alabama.....	11,761	78,185	10,521	67,640	272	1,099	1,787	6,886
21 West South Central, total.....	2,047	14,354	2,395	(D)	256	1,836	...	...
22 Arkansas.....	390	3,068	480	(D)	49	378	...	...
23 Oklahoma.....	1,657	11,286	1,915	(D)	207	1,458	...	...
24 Mountain, total.....	10,394	62,996	12,297	(D)	561	2,931	(D)	(D)
25 Montana.....	216	1,142	1,489	4,158	509	2,690	(D)	(D)
26 Wyoming.....	1,634	5,613	2,756	11,241			...	...
27 Colorado.....	3,121	19,129	2,922	15,937			(D)	(D)
28 New Mexico and Arizona.....	130	819	133	(D)			...	...
29 Utah.....	5,293	36,293	4,997	(D)			(D)	(D)
30 Pacific (Washington).....	260	2,037	619	(D)	23	156	(D)	(D)
31 Alaska.....	762	7,098	663	6,445	(D)	(D)	55	449
<b>LIGNITE</b>								
32 United States, total.....	4,231	11,021	4,238	10,330	336	919	...	...
<u>Region</u>								
33 East and South.....	4,123	10,750	4,203	10,197	305	811	...	...
34 Mountain (Montana).....	108	271	35	133	31	108	...	...

See footnotes at end of table.



## Produced or Performed in All Industries, by Region, State, and Alaska: 1958 and 1954

3A. For net shipments of coal by type of operation, see table 3B.)

1958											
Raw coal for preparation						Prepared coal shipped (including interplant transfers)					
For mechanical cleaning			For mechanical crushing, screening, or sizing only			Mechanically cleaned		Mechanically crushed, screened, or sized only			
Received from other establishments		Mined and prepared at same establishment (1,000 short tons)	Received from other establishments		Mined and prepared at same establishment (1,000 short tons)	Short tons	Value	Short tons	Value		
Short tons (1,000)	Cost (\$1,000)		Short tons (1,000)	Cost (\$1,000)						(1,000)	(\$1,000)
56,236	231,849	267,883	24,975	93,875	79,980	258,683	1,349,755	(D)	(D)	1	
56,181	231,349	267,426	24,975	93,875	79,713	258,360	1,345,983	100,785	471,075	2	
12,654	55,434	37,940	3,676	11,855	13,980	39,751	248,665	16,463	73,686	3	
10,348	33,025	70,789	1,815	7,062	16,842	65,006	265,644	18,186	70,774	4	
37,815	327,706	12,419	(3)	(3)	11,474	14,454	64,999	12,939	49,559	5	
34,348	312,381	11,325	...	...	1,920	10,532	40,667	1,882	8,078	6	
		47,045	(3)	(3)	3,448	40,020	159,978	3,365	13,137	7	
(D)	(D)	3,188	(D)	(D)	1,647	2,566	11,204	1,569	5,798	8	
{	...	...	82	262	1,015	...	...	966	3,350	9	
	(D)	(D)	2,470	(D)	606	2,566	11,204	{	580	2,336	10
	...	...	718	...	...				23	112	11
19,382	80,285	99,829	12,704	49,808	25,267	94,779	533,177	37,377	186,700	12	
...	...	...	138	522	355	...	...	493	2,075	13	
3,525	13,617	10,590	3,864	15,407	4,488	10,749	59,220	8,284	40,888	14	
15,857	66,668	89,239	8,702	33,879	20,424	84,030	473,957	28,600	143,737	15	
...	...	...	...	...	...	...	...	...	...	16	
11,875	48,249	52,037	6,583	24,415	12,975	51,915	254,468	19,672	92,478	17	
9,933	40,950	38,472	5,908	21,853	9,148	42,000	190,663	15,002	66,096	18	
308	1,102	117	532	2,009	1,984	383	1,507	2,713	11,594	19	
1,634	6,197	13,448	143	553	1,843	9,532	62,298	1,957	14,788	20	
...	...	636	...	...	1,264	539	3,882	1,252	8,636	21	
...	...	...	...	...	353	...	...	341	2,690	22	
...	...	636	...	...	911	539	3,882	911	5,946	23	
(D)	(D)	2,753	(D)	(D)	7,738	3,567	27,062	6,266	33,003	24	
...	...	(D)	(D)	(D)	(D)	75	429	{	(D)	(D)	25
...	...	(D)	(D)	(D)	(D)				1,532	5,051	26
...	...	(D)	(D)	(D)	(D)				2,765	17,321	27
...	...	(D)	...	...	(D)				(D)	(D)	28
(D)	(D)	2,667	(D)	(D)	3,251				3,492	26,633	1,749
(D)	(D)	254	...	...	...	237	1,881	...	...	30	
55	500	457	...	...	267	323	3,772	(D)	(D)	31	
...	...	...	...	...	3,897	...	...	3,895	10,102	32	
...	...	...	...	...	3,820	...	...	3,818	9,939	33	
...	...	...	...	...	77	...	...	77	163	34	

Table 6A.—Primary Products and Services of the Bituminous Coal and Lignite Mining Industries Produced or Performed in All Industries, by Region, State, and Alaska: 1958 and 1954—Continued

Type of service, division, and State	1958		1954
	Raw coal mined (1,000 short tons)	Receipts for services (\$1,000)	receipts for services <sup>4</sup> (\$1,000)
United States, total.....	6,327	21,537	<sup>5</sup> 17,596
Bituminous coal and lignite stripping services:			
Stripping overburden and strip mining coal not for own account.....	5,112	15,765	14,103
Auger mining not for own account.....	1,215	3,358	1,640
Bituminous coal and lignite services other than stripping:			
Prospect, test, and other drilling (including blasting).....	xxx	842	108
Sinking mine shafts, driving mine tunnels, and other services.....	xxx	1,572	<sup>5</sup> 1,745
Middle Atlantic (Pennsylvania).....	2,008	8,039	<sup>5</sup> 7,766
Stripping overburden and strip mining coal not for own account.....	1,969	6,176	6,768
Prospect, test, and other drilling (including blasting); sinking mine shafts and driving mine tunnels; and other services.....	xxx	1,821	(D)
East North Central.....	364	1,050	<sup>5</sup> 882
Stripping overburden and strip mining coal not for own account.....	292	782	<sup>6</sup> 814
South Atlantic.....	2,464	7,923	<sup>5</sup> 4,543
Stripping overburden and strip mining coal not for own account.....	1,730	5,642	2,467
Auger mining.....	734	1,971	1,332
Virginia, total.....	838	1,967	...
Stripping overburden and strip mining coal not for own account.....	573	1,310	...
Auger mining.....	265	657	...
West Virginia.....	1,540	5,614	<sup>5</sup> 4,543
Stripping overburden and strip mining coal not for own account.....	1,071	4,040	2,467
Auger mining.....	469	1,314	1,332
East South Central.....	1,034	3,196	(NA)
Stripping overburden and strip mining coal not for own account.....	685	2,072	(NA)
Auger mining.....	349	1,114	(NA)
Kentucky.....	706	2,035	1,409
Stripping overburden and strip mining coal not for own account.....	397	1,039	1,261
Auger mining.....	309	954	148
Alabama (stripping overburden and strip mining coal not for own account).....	213	661	395
Mountain.....	(D)	796	<sup>7</sup> 1,937

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Represents raw coal for use without preparation plus prepared coal.<sup>2</sup>Revised to exclude production from State-owned or State-operated mines, amounting to 142 thousand short tons valued at \$488 thousand. Such operations are not in the scope of the Censuses and no data were obtained in 1958 for such mines.<sup>3</sup>Figures for receipts of raw coal for preparation by mechanical crushing, screening, and sizing are combined with receipts for mechanical cleaning.<sup>4</sup>Represents only receipts by the Bituminous Coal and Lignite Mining Services Industries.<sup>5</sup>Includes receipts for secondary services and products purchased for resale amounting for the United States as a whole to about \$40 thousand.<sup>6</sup>Represents Ohio only. For total for division see also footnote 5.<sup>7</sup>Includes data for two establishments in Washington. See also footnote 5.



Table 6B.—Shipments of Selected Primary Products of the Bituminous Coal and Lignite Industries  
Distributed by Value Per Short Ton: 1958

(Figures which cannot be shown without approximately disclosing information for individual companies have been combined with figures for other size classes. A(D) appears in the column where the figure has been omitted and the underlined figure to the left on the same line represents the combined figure)

Product and item	Shipments by average value per short ton f.o.b. mine or plant of <sup>1</sup> --							
	Total	Less than \$2.05	\$2.05- \$2.29	\$2.30- \$2.59	\$2.60- \$2.94	\$2.95- \$3.34	\$3.35- \$3.79	\$3.80- \$4.29
<b>Bituminous coal:</b>								
Raw coal shipped (including interplant transfers):								
For use without preparation:								
Quantity shipped.....1,000 short tons...	57,168	893	1,027	2,274	3,185	6,844	8,369	15,368
Percent of total.....	100.0	1.6	1.8	4.0	5.6	12.0	14.6	26.9
Value of shipments.....\$1,000...	237,984	1,738	2,282	5,557	8,868	21,483	29,858	62,501
Percent of total.....	100.0	0.7	1.0	2.3	3.7	9.0	12.5	26.3
For preparation at other establishments:								
Quantity shipped.....1,000 short tons...	76,657	485	826	2,949	2,573	12,816	12,997	19,279
Percent of total.....	100.0	0.6	1.1	3.8	3.4	16.7	17.0	25.1
Value of shipments.....\$1,000...	309,084	861	1,790	7,204	7,253	41,252	46,015	76,963
Percent of total.....	100.0	0.3	0.6	2.3	2.3	13.3	14.9	24.9
Prepared coal shipped (including interplant transfers):								
Mechanically cleaned:								
Quantity shipped.....1,000 short tons...	258,360	...	<u>1,931</u>	(D)	238	12,040	25,468	31,016
Percent of total.....	100.0	...	<u>0.7</u>	(D)	0.1	4.7	9.8	12.0
Value of shipments.....\$1,000...	1,345,983	...	<u>4,502</u>	(D)	658	38,582	90,069	125,031
Percent of total.....	100.0	...	<u>0.3</u>	(D)	( <sup>2</sup> )	2.9	6.7	9.3
Mechanically crushed, screened, or sized only:								
Quantity shipped.....1,000 short tons...	100,785	558	727	1,995	2,555	5,369	13,399	19,267
Percent of total.....	100.0	0.6	0.7	2.0	2.5	5.3	13.3	19.1
Value of shipments.....\$1,000...	471,075	808	1,626	4,940	7,180	16,928	47,121	78,112
Percent of total.....	100.0	0.2	0.3	1.0	1.5	3.6	10.0	16.6
<b>Lignite:</b>								
Raw coal shipped (including interplant transfers):								
For use without preparation:								
Quantity shipped.....1,000 short tons...	336	<u>36</u>	(D)	189	(D)	57	12	20
Percent of total.....	100.0	<u>10.7</u>	(D)	<u>56.2</u>	(D)	17.0	3.6	6.0
Value of shipments.....\$1,000...	919	<u>52</u>	(D)	<u>439</u>	(D)	179	43	80
Percent of total.....	100.0	<u>5.6</u>	(D)	<u>47.8</u>	(D)	19.5	4.7	8.7
Prepared coal shipped (including interplant transfers):								
Mechanically crushed, screened, or sized only:								
Quantity shipped.....1,000 short tons...	3,895	<u>2,038</u>	(D)	(D)	<u>1,821</u>	(D)	(D)	36
Percent of total.....	100.0	<u>52.3</u>	(D)	(D)	<u>46.8</u>	(D)	(D)	0.9
Value of shipments.....\$1,000...	10,102	<u>4,531</u>	(D)	(D)	<u>5,428</u>	(D)	(D)	143
Percent of total.....	100.0	<u>44.9</u>	(D)	(D)	<u>52.7</u>	(D)	(D)	1.4
Shipments by average value per short tons f.o.b. mine or plant of <sup>1</sup> --								
	\$4.30- \$4.84	\$4.85- \$5.44	\$5.45- \$6.14	\$6.15- \$6.94	\$6.95- \$7.84	\$7.85- \$8.84	\$8.85- \$9.99	\$10.00 and over
<b>Bituminous coal:</b>								
Raw coal shipped (including interplant transfers):								
For use without preparation:								
Quantity shipped.....1,000 short tons...	5,850	5,607	3,095	1,289	3,051	175	<u>141</u>	(D)
Percent of total.....	10.2	9.8	5.4	2.3	5.3	0.3	<u>0.2</u>	(D)
Value of shipments.....\$1,000...	26,617	28,598	17,545	8,472	21,615	1,488	<u>1,382</u>	(D)
Percent of total.....	11.2	12.0	7.4	3.6	9.1	0.6	<u>0.6</u>	(D)
For preparation at other establishments:								
Quantity shipped.....1,000 short tons...	9,546	11,696	<u>3,490</u>	(D)	...	(D)	(D)	...
Percent of total.....	12.4	15.3	<u>4.6</u>	(D)	...	(D)	(D)	...
Value of shipments.....\$1,000...	43,703	59,632	<u>24,411</u>	(D)	...	(D)	(D)	...
Percent of total.....	14.2	19.3	<u>7.9</u>	(D)	...	(D)	(D)	...
Prepared coal shipped (including interplant transfers):								
Mechanically cleaned:								
Quantity shipped.....1,000 short tons...	38,958	49,257	31,587	33,465	29,577	<u>3,310</u>	(D)	1,513
Percent of total.....	15.1	19.1	12.2	13.0	11.4	<u>1.3</u>	(D)	0.6
Value of shipments.....\$1,000...	176,713	250,297	181,578	222,186	212,491	<u>27,618</u>	(D)	16,258
Percent of total.....	13.1	18.6	13.5	16.5	15.8	<u>2.1</u>	(D)	1.2
Mechanically crushed, screened, or sized only:								
Quantity shipped.....1,000 short tons...	20,460	12,945	10,014	7,923	2,670	2,042	628	233
Percent of total.....	20.3	12.9	9.9	7.9	2.7	2.0	0.6	0.2
Value of shipments.....\$1,000...	93,798	65,799	58,189	51,960	19,178	16,942	5,725	2,769
Percent of total.....	19.9	14.0	12.4	11.0	4.1	3.6	1.2	0.6
<b>Lignite:</b>								
Raw coal shipped (including interplant transfers):								
For use without preparation:								
Quantity shipped.....1,000 short tons...	<u>22</u>	(D)	...	...	...	(D)	...	...
Percent of total.....	<u>6.5</u>	(D)	...	...	...	(D)	...	...
Value of shipments.....\$1,000...	<u>126</u>	(D)	...	...	...	(D)	...	...
Percent of total.....	<u>13.7</u>	(D)	...	...	...	(D)	...	...
Prepared coal shipped (including interplant transfers):								
Mechanically crushed, screened, or sized only:								
Quantity shipped.....1,000 short tons...	...	...	...	...	...	...	...	...
Percent of total.....	...	...	...	...	...	...	...	...
Value of shipments.....\$1,000...	...	...	...	...	...	...	...	...
Percent of total.....	...	...	...	...	...	...	...	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The "average values" are based on the entire shipments of the specified product by each establishment. Thus they are representative of varied average prices among establishments but not of variations within an establishment.

<sup>2</sup>Less than 0.05.

Table 6C.—Primary Products of the Bituminous Coal Industry Produced in All Industries,  
by County: 1958 and 1954

(For net production of coal by county see table 2B)

Division, State, and county	Net coal shipments <sup>1</sup>				1958							
	1958		1954 <sup>2</sup>		Raw coal shipped (including interplant transfers)				Prepared coal shipped (including interplant transfers)			
					For use without preparation		For preparation at other establishments		Mechanically cleaned		Mechanically crushed, screened, or sized only	
	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)
United States, total....	416,313	2,055,042	387,177	1,774,495	57,168	237,984	76,657	309,084	258,360	1,345,983	100,785	471,075
Middle Atlantic (Pennsylvania)	69,617	380,374	71,729	381,089	13,403	58,023	14,801	62,153	39,751	248,665	16,463	73,686
Allegheny.....	8,422	52,673	8,315	46,167	1,010	4,227	973	4,410	6,626	44,322	786	4,124
Armstrong.....	2,633	11,652	1,540	6,372	547	2,180	252	710	1,249	6,018	837	3,454
Beaver.....	497	2,108	419	1,926	148	563	(D)	(D)	...	...	349	1,545
Bedford.....	154	649	(NA)	(NA)	154	649	33	107	...	...	...	...
Blair.....	116	478	166	718	(D)	(D)	...	...	...	...	(D)	(D)
Butler.....	2,136	8,441	1,594	5,797	687	2,609	451	1,546	585	2,466	864	3,366
Cambria.....	8,597	52,972	9,128	54,450	2,031	11,103	99	373	4,595	30,876	1,971	10,993
Centre.....	986	3,906	901	3,221	469	1,804	(D)	(D)	(D)	(D)	(D)	(D)
Clarion.....	2,975	11,007	1,760	6,617	460	1,400	120	406	1,020	3,796	1,495	5,811
Clearfield.....	5,362	22,732	4,710	18,956	1,241	4,834	634	2,330	978	5,152	3,143	12,746
Clinton.....	577	2,445	595	2,293	187	756	47	172	(D)	(D)	(D)	(D)
Elk.....	358	1,493	430	1,670	135	477	76	292	(D)	(D)	(D)	(D)
Payette.....	6,012	38,614	11,011	67,834	1,162	5,906	1,029	5,756	4,698	32,159	152	549
Greene.....	8,356	51,860	9,329	54,386	(D)	(D)	(D)	(D)	6,987	45,409	(D)	(D)
Indiana.....	6,226	32,314	5,018	23,922	436	1,703	1,387	4,756	4,074	22,970	1,716	7,641
Jefferson.....	1,082	4,554	2,068	8,384	475	1,574	276	1,012	...	...	607	2,980
Lawrence.....	1,009	3,789	657	2,538	723	2,616	113	357	...	...	286	1,173
Lycoming.....	109	429	32	145	(D)	(D)	...	...	...	...	(D)	(D)
McKean.....	57	256	93	396	(D)	(D)	...	...	...	...	(D)	(D)
Mercer.....	759	3,019	637	2,678	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Somerset.....	2,958	14,300	2,599	12,132	978	3,893	(D)	(D)	971	5,664	1,009	4,743
Tioga.....	331	1,594	71	368	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Venango.....	512	2,187	495	1,822	(D)	(D)	107	350	(D)	(D)	(D)	(D)
Washington.....	5,483	35,662	7,088	42,873	324	1,378	6,950	28,879	4,960	33,511	199	773
Westmoreland.....	3,628	20,062	2,635	13,150	993	5,096	259	883	2,445	13,907	190	1,059
East North Central, total....	93,338	373,308	90,533	345,118	10,146	36,890	11,089	34,572	65,006	265,644	18,186	70,774
Ohio.....	33,970	138,309	32,577	119,255	6,577	23,751	6,899	22,598	14,454	64,999	12,939	49,559
Athens.....	808	3,718	626	2,846	(D)	(D)	(D)	(D)	(D)	(D)	595	2,724
Belmont.....	5,994	25,683	6,192	23,984	237	779	151	350	3,363	15,695	2,394	9,209
Carroll.....	320	1,122	337	1,192	14	38	(D)	(D)	...	...	306	1,084
Columbiana.....	1,337	4,851	1,497	5,740	1,254	4,525	97,799	314	...	...	83	306
Coshocton.....	1,322	5,302	884	3,191	592	2,433	(D)	(D)	...	...	730	2,869
Gallia.....	1,006	3,356	883	3,072	(D)	(D)	120	359	(D)	(D)	873	2,926
Guernsey.....	214	749	416	1,321	17	72	(D)	(D)	...	...	197	677
Harrison.....	7,381	34,398	7,081	27,577	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jackson.....	284	1,092	480	1,903	98	394	(D)	(D)	(D)	(D)	(D)	(D)
Jefferson.....	3,971	15,785	3,339	12,409	1,560	5,455	(D)	(D)	(D)	(D)	(D)	(D)
Lawrence.....	372	1,326	412	1,402	(D)	(D)	...	...	...	...	(D)	(D)
Mahoning.....	960	4,432	652	2,481	289	1,296	...	...	...	...	671	3,136
Meigs.....	532	1,738	865	2,601	(D)	(D)	...	...	...	...	(D)	(D)
Morgan.....	2,026	7,050	1,022	3,118	67	269	...	...	(D)	(D)	(D)	(D)
Muskingum.....	708	2,204	1,030	2,828	32	128	...	...	...	...	676	2,076
Noble.....	1,038	2,578	1,303	3,375	154	479	...	...	(D)	(D)	(D)	(D)
Perry.....	1,600	6,417	1,842	7,041	30	102	247	836	1,422	5,708	148	607
Stark.....	693	2,440	827	2,598	242	780	(D)	(D)	(D)	(D)	(D)	(D)
Tuscarawas.....	2,228	8,281	2,212	8,194	(D)	(D)	83	172	(D)	(D)	1,558	5,433
Vinton.....	189	828	172	763	67	286	...	...	(D)	(D)	(D)	(D)
Indiana.....	15,059	58,116	16,055	65,816	2,645	9,371	925	2,400	10,532	40,667	1,882	8,078
Clay.....	765	3,262	962	3,619	58	251	(D)	(D)	(D)	(D)	(D)	(D)
Greene.....	1,134	4,092	924	3,679	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Knox.....	1,281	4,909	1,411	5,199	81	310	...	...	(D)	(D)	(D)	(D)
Pike.....	2,613	9,940	2,149	7,293	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Sullivan.....	978	4,046	1,279	(D)	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Vigo.....	2,952	11,804	2,699	9,979	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Warrick.....	4,438	16,028	5,484	(D)	2,300	7,928	...	...	(D)	(D)	(D)	(D)
Illinois.....	44,309	176,883	41,901	160,047	924	3,768	3,265	9,574	40,020	159,978	3,365	13,137
Fulton.....	4,678	19,472	6,364	23,937	(D)	(D)	...	...	4,623	19,245	(D)	(D)
Peoria.....	323	1,571	419	1,853	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Vermilion.....	1,099	4,771	819	3,213	...	...	...	...	(D)	(D)	(D)	(D)
Williamson.....	6,405	25,357	5,523	(D)	333	1,290	87	269	6,013	23,774	59	293

See footnotes at end of table.



Table 6C.—Primary Products of the Bituminous Coal Industry Produced in All Industries,  
by County: 1958 and 1954—Continued

Division, State, and county	Net coal shipments <sup>1</sup>				1958							
	1958		1954 <sup>2</sup>		Raw coal shipped (including interplant transfers)				Prepared coal shipped (including interplant transfers)			
					For use without preparation		For preparation at other establishments		Mechanically cleaned		Mechanically crushed, screened, or sized only	
	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)
West North Central, total.....	4,572	18,839	5,093	20,074	437	1,837	373	1,137	2,566	11,204	1,569	5,798
Iowa.....	1,261	4,520	1,198	4,509	295	1,170	(D)	(D)	...	...	966	3,350
Appanoose.....	196	833	133	637	49	245	...	...	...	...	147	588
Mahaska.....	190	632	148	530	96	327	...	...	...	...	94	305
Marion.....	676	2,263	619	2,153	30	104	66	197	...	...	646	2,159
Monroe.....	101	375	106	392	81	314	(D)	(D)	...	...	20	61
Missouri.....	(D)	(D)	(D)	(D)	104	497	(D)	(D)	(D)	(D)	580	2,336
Kansas.....	(D)	(D)	(D)	(D)	38	170	(D)	(D)	(D)	(D)	23	112
Crawford.....	67	307	503	2,172	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Atlantic.....	151,349	806,869	133,672	630,595	19,193	86,992	29,298	121,397	94,779	533,177	37,377	186,700
Maryland.....	889	3,952	431	1,942	396	1,877	131	556	...	...	493	2,075
Allegany.....	334	1,591	171	886	151	696	101	388	...	...	183	895
Garrett.....	555	2,361	260	1,056	245	1,181	30	168	...	...	310	1,180
Virginia.....	26,256	128,386	15,367	71,987	7,223	28,278	5,471	21,736	10,749	59,220	8,284	40,888
Buchanan.....	12,484	61,582	5,661	26,333	4,837	19,424	1,627	6,260	4,213	23,957	3,464	18,345
Dickenson.....	4,425	22,180	3,231	14,647	510	1,839	1,020	4,136	(D)	(D)	(D)	(D)
Lee.....	398	2,048	654	3,559	130	500	112	431	(D)	(D)	(D)	(D)
Russell.....	1,837	8,979	696	3,183	86	327	910	4,322	(D)	(D)	527	2,265
Tazewell.....	1,364	6,941	1,170	5,844	372	1,482	459	1,762	209	1,227	783	4,232
Wise.....	5,658	26,198	3,926	18,266	1,283	4,685	1,295	4,661	1,329	7,814	3,046	13,699
West Virginia.....	124,193	674,478	117,865	556,623	11,563	56,784	23,696	99,105	84,030	473,957	28,600	143,737
Barbour.....	3,086	14,080	3,039	12,025	402	1,357	283	964	1,589	8,455	1,095	4,268
Boone.....	5,410	26,410	5,681	25,838	302	1,232	937	3,493	4,937	24,354	171	824
Braxton.....	196	841	(NA)	(NA)	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Brooke.....	696	3,401	1,123	4,838	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fayette.....	5,251	35,837	5,772	31,316	387	2,143	1,157	5,331	3,384	24,157	1,479	9,537
Gilmer.....	334	1,292	74	215	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grant.....	127	523	132	572	47	129	...	...	...	...	80	394
Greenbrier.....	1,121	5,963	1,040	4,941	67	311	633	2,463	345	1,880	709	3,772
Harrison.....	6,658	31,339	7,420	27,823	339	1,410	934	3,101	3,873	19,265	2,446	10,664
Kanawha.....	8,532	39,586	7,148	32,425	1,264	4,640	2,319	7,983	5,989	29,292	1,279	5,654
Lewis.....	945	3,323	624	1,950	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Logan.....	16,717	81,352	15,442	66,894	395	1,324	1,351	6,392	13,725	68,670	2,597	11,358
McDowell.....	16,967	113,732	17,798	102,467	314	1,637	6,708	29,810	13,108	91,247	3,545	20,848
Marion.....	9,550	53,777	8,653	41,451	3,241	19,319	...	...	5,957	32,499	352	1,659
Mason.....	484	1,649	186	668	141	453	7	33	...	...	343	1,196
Mercer.....	1,139	6,578	1,407	7,943	117	471	48	183	643	4,045	374	2,062
Mineral.....	156	751	63	278	(D)	(D)	...	...	...	...	(D)	(D)
Mingo.....	6,177	30,635	6,823	30,229	298	1,116	94	344	4,654	23,832	1,225	5,687
Monongalia.....	7,246	36,767	6,964	28,361	283	1,285	2,928	13,577	4,753	24,482	2,210	11,200
Nicholas.....	5,372	29,863	4,270	19,441	188	732	807	3,221	2,464	15,021	2,720	14,110
Pocahontas.....	121	545	371	1,571	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Preston.....	2,024	9,066	2,040	7,097	308	1,045	1,156	4,667	...	...	1,716	8,021
Raleigh.....	7,389	46,295	5,910	31,701	1,255	7,345	1,786	6,875	4,335	27,445	1,795	11,505
Randolph.....	839	4,623	1,058	5,457	400	2,226	(D)	(D)	(D)	(D)	(D)	(D)
Taylor.....	329	1,265	452	1,379	(D)	(D)	(D)	(D)	...	(D)	(D)	(D)
Upshur.....	1,494	6,472	1,127	4,140	234	978	211	862	512	2,407	748	3,087
Webster.....	719	4,025	590	3,313	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming.....	9,954	60,430	8,513	43,590	835	4,325	628	2,903	7,894	48,857	1,225	7,248
East South Central, total.....	84,736	396,265	70,839	315,422	13,149	49,319	19,298	76,008	51,915	254,468	19,672	92,478
Kentucky.....	66,671	292,696	53,996	222,336	9,669	35,937	17,189	67,961	42,000	190,663	15,002	66,096
Bell.....	1,540	6,641	1,259	5,951	586	2,256	163	544	452	2,327	502	2,058
Butler.....	121	553	97	376	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Carter.....	63	211	90	424	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Clay.....	1,612	6,194	549	2,691	169	703	1,154	4,191	...	...	1,443	5,491
Davies.....	913	3,029	617	1,419	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Floyd.....	4,905	28,539	4,539	26,218	(D)	(D)	3,416	15,417	(D)	(D)	2,245	11,453

See footnotes at end of table.

Table 6C.—Primary Products of the Bituminous Coal Industry Produced in All Industries,  
by County: 1958 and 1954—Continued

Division, State, and county	Net coal shipments <sup>1</sup>				1958							
	1958		1954 <sup>2</sup>		Raw coal shipped (including interplant transfers)				Prepared coal shipped (including interplant transfers)			
					For use without preparation		For preparation at other establishments		Mechanically cleaned		Mechanically crushed, screened, or sized only	
	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)	Short tons (1,000)	Value (\$1,000)
East South Central--Continued												
Kentucky--Continued												
Harlan.....	4,757	26,264	5,757	31,781	1,104	5,876	3,719	17,940	1,946	10,860	1,707	9,528
Henderson.....	180	650	247	757	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Hopkins.....	11,945	44,011	12,482	39,000	706	1,999	743	1,847	10,769	40,556	470	1,456
Jackson.....	71	292	113	460	55	214	(D)	(D)	...	...	(D)	(D)
Johnson.....	448	1,929	309	1,254	256	974	41	163	(D)	(D)	(D)	(D)
Knott.....	790	2,621	598	2,181	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Knox.....	340	1,484	128	506	95	321	(D)	(D)	(D)	(D)	(D)	(D)
Laurel.....	419	1,178	105	374	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Leslie.....	2,159	8,836	2,227	9,007	679	2,474	(D)	(D)	663	2,927	817	3,435
Letcher.....	5,228	27,293	4,340	21,984	1,446	5,126	2,157	8,311	(D)	(D)	(D)	(D)
McCreary.....	372	1,466	314	1,123	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Muhlenberg.....	8,984	30,005	5,109	14,662	874	2,982	139	443	7,408	24,997	702	2,026
Ohio.....	2,851	9,491	1,702	4,882	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Perry.....	4,845	22,832	4,081	17,161	(D)	(D)	2,234	7,279	(D)	(D)	1,513	7,404
Pike.....	5,520	28,443	5,319	24,088	586	2,599	2,619	9,230	3,469	18,436	1,465	7,408
Pulaski.....	142	520	60	231	(D)	(D)	...	...	...	...	(D)	(D)
Webster.....	1,615	5,375	(NA)	(NA)	24	87	...	...	(D)	(D)	(D)	(D)
Tennessee.....	6,304	25,384	6,322	25,446	3,208	12,283	322	1,161	383	1,507	2,713	11,594
Anderson.....	1,208	4,919	459	2,121	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Campbell.....	1,000	3,928	764	3,874	297	1,009	116	360	383	1,507	320	1,412
Claiborne.....	473	1,996	327	1,377	138	621	(D)	(D)	...	...	335	1,375
Grundy.....	731	2,994	488	1,890	(D)	(D)	...	...	...	...	(D)	(D)
Marion.....	773	3,379	1,837	6,906	455	1,691	(D)	(D)	...	...	318	1,688
Morgan.....	485	2,075	467	1,993	(D)	(D)	...	...	...	...	(D)	(D)
Rhea.....	157	588	45	178	157	588	...	...	...	...	...	...
Scott.....	671	2,427	539	1,850	217	691	(D)	(D)	...	...	454	1,736
Sequatchie.....	183	615	242	824	183	615	(D)	(D)	...	...	...	...
Alabama.....	11,761	78,185	10,521	67,640	272	1,099	1,787	6,886	9,532	62,298	1,957	14,788
Blount.....	238	1,572	150	979	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Jefferson.....	7,416	50,919	7,276	48,162	(D)	(D)	830	2,997	6,297	40,970	(D)	(D)
Marion.....	461	2,750	228	1,651	70	263	235	1,032	223	1,419	168	1,068
Shelby.....	78	460	80	474	10	42	...	...	29	135	39	283
Tuscaloosa.....	567	2,605	608	2,659	(D)	(D)	197	848	468	2,115	(D)	(D)
Walker.....	2,886	19,359	2,101	13,312	27	101	402	1,466	2,444	17,293	415	1,965
West South Central, total.....	2,047	14,354	2,395	(D)	256	1,856	...	...	539	3,882	1,252	8,636
Arkansas.....	390	3,068	480	(D)	49	378	...	...	...	...	341	2,690
Johnson.....	214	1,683	213	1,657	9	71	...	...	...	...	205	1,612
Sebastian.....	77	661	229	1,576	(D)	(D)	...	...	...	...	(D)	(D)
Oklahoma.....	1,657	11,286	1,915	(D)	207	1,458	...	...	539	3,882	911	5,946
Le Flore.....	313	2,626	277	1,800	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Mountain, total.....	10,394	62,996	12,297	(D)	561	2,931	(D)	(D)	3,567	27,062	6,266	33,003
Montana.....	216	1,142	1,489	4,158	(D)	(D)	2	6	(D)	(D)	(D)	(D)
Musselshell.....	168	939	361	1,719	4	17	...	...	...	...	164	922
Wyoming.....	1,634	5,613	2,756	11,241	(D)	(D)	...	...	(D)	(D)	1,532	5,051
Colorado.....	3,121	19,129	2,922	15,937	(D)	(D)	(D)	(D)	(D)	(D)	2,765	17,321
Delta.....	59	295	42	237	27	122	...	...	...	...	32	173
Fremont.....	243	886	179	734	(D)	(D)	11	32	(D)	(D)	162	574
Gunnison.....	206	1,223	265	1,400	80	475	(D)	(D)	...	...	126	748
Routt.....	407	1,776	439	1,922	(D)	(D)	...	...	(D)	(D)	386	1,683
Weld.....	575	2,719	623	2,614	...	...	...	...	...	...	575	2,719
New Mexico and Arizona.....	130	819	133	(D)	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Colfax (New Mexico).....	42	258	67	409	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Utah.....	5,293	36,293	4,997	(D)	52	241	1,550	12,798	3,492	26,633	1,749	9,419
Carbon.....	4,720	32,812	3,886	24,269	(D)	(D)	(D)	(D)	3,492	26,633	(D)	(D)
Emery.....	468	2,898	1,017	5,437	29	131	(D)	(D)	...	...	439	2,767
Pacific (Washington).....	260	2,037	3619	(D)	23	156	(D)	(D)	237	1,881	...	...

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Represents raw coal for use without preparation plus prepared coal.<sup>2</sup>For counties, excludes coal produced in industries other than the Bituminous Coal Industry. However, limited States, division, and State totals represent production in all industries. See also table 6A, footnote 2.<sup>3</sup>Includes data for one establishment in Oregon.



Table 7.—Supplies Used in the Bituminous Coal and Lignite Mining Industries, by Division and State, 1958 and 1954, and Type of Operation: 1958

(For the quantity and cost of coal received for preparation, see table 6A. For the quantity and total cost of purchased fuels and electricity used, and the total quantity of coal produced and used for fuel, see table 3)

Ind. code	Industry, division, State, type of operation, and year	Total cost of supplies used (\$1,000)	Explosives <sup>1</sup>		Steel-mill shapes and forms <sup>2</sup>		Cost of round or hewn woods products and stumpage <sup>3</sup> (\$1,000)	Cost of other supplies (\$1,000)	Cost of supplies undistributed by type (\$1,000)
			Pounds (1,000)	Cost (\$1,000)	Short tons (1,000)	Cost (\$1,000)			
1211	BITUMINOUS COAL:								
	United States, total:								
	1958.....	349,532	219,121	26,121	427,850	49,849	20,873	202,853	49,836
	1954.....	257,233	166,656	26,632	342,673	30,575	25,756	174,270	...
	Middle Atlantic (Pennsylvania):								
	1958.....	55,037	25,658	2,903	43,726	7,894	4,406	33,915	5,919
	1954.....	49,261	21,769	3,719	100,254	6,475	6,771	32,296	...
	East North Central, total:								
	1958.....	63,991	90,316	7,648	75,740	8,761	1,571	40,348	5,663
	1954.....	48,925	51,897	6,562	34,186	5,146	1,975	35,242	...
	Ohio:								
	1958.....	25,779	45,148	3,303	26,485	2,135	560	16,341	3,440
	1954.....	17,443	22,853	2,920	15,399	2,243	761	11,519	...
	Indiana:								
	1958.....	(D)	18,599	1,821	20,257	1,969	197	(D)	520
	1954.....	8,728	16,634	1,842	3,627	758	254	5,874	...
	Illinois:								
	1958.....	(D)	26,569	2,524	28,998	4,657	814	(D)	1,703
	1954.....	22,754	12,410	1,800	15,160	2,145	960	17,849	...
	West North Central, total:								
	1958.....	(D)	4,331	631	1,000	253	34	(D)	428
	1954.....	2,549	5,719	948	386	137	10	1,454	...
	Iowa:								
	1958.....	626	973	169	254	59	15	262	121
	1954.....	(D)	1,075	180	40	8	8	(D)	...
	Missouri:								
	1958.....	(D)	2,449	381	546	153	13	(D)	281
	1954.....	(D)	2,615	494	229	63	2	(D)	...
	Kansas:								
	1958.....	(D)	909	81	200	41	6	(D)	26
	1954.....	(D)	2,029	274	117	66	...	(D)	...
	South Atlantic:								
	1958.....	142,686	45,410	7,883	167,466	21,512	10,864	84,422	18,005
	1954.....	97,699	44,720	7,879	162,800	12,876	11,942	65,002	...
	Maryland:								
	1958.....	844	190	43	66	13	10	478	300
	1954.....	223	248	37	30	5	25	156	...
	Virginia:								
	1958.....	23,764	6,447	1,143	7,255	2,160	1,243	13,538	5,680
	1954.....	12,008	8,003	1,462	36,791	1,050	1,481	8,015	...
	West Virginia:								
	1958.....	118,074	38,755	6,693	160,125	19,339	9,611	70,404	12,027
	1954.....	85,458	36,462	6,380	125,979	11,821	10,435	56,822	...
	East South Central, total:								
	1958.....	71,557	46,185	5,842	108,289	8,289	3,037	37,167	17,222
	1954.....	47,223	34,958	6,004	32,697	4,231	3,797	33,191	...
	Kentucky:								
	1958.....	52,481	33,975	4,051	40,812	5,413	2,197	25,579	15,241
	1954.....	35,172	23,873	4,023	21,435	2,951	2,958	25,240	...
	Tennessee:								
	1958.....	5,360	963	157	4,125	787	259	3,660	497
	1954.....	3,452	3,662	684	779	76	247	2,445	...
	Alabama:								
	1958.....	13,716	11,247	1,634	63,352	2,089	581	7,928	1,484
	1954.....	8,599	7,423	1,297	10,483	1,204	592	5,506	...
	West South Central, total:								
	1958.....	2,749	4,093	613	400	148	135	1,061	792
	1954.....	2,518	3,796	699	505	135	306	1,408	...
	Arkansas:								
	1958.....	923	252	49	213	47	19	183	625
	1954.....	(D)	1,282	219	38	7	101	(D)	...
	Oklahoma:								
	1958.....	1,826	3,841	564	187	101	116	878	167
	1954.....	(D)	2,514	450	467	128	205	(D)	...

See footnotes at end of table.

Table 7.—Supplies Used in the Bituminous Coal and Lignite Mining Industries, by Division and State, 1958 and 1954, and Type of Operation: 1958—Continued

Ind. code	Industry, division, State type of operation, and year	Total cost of supplies used  (\$1,000)	Explosives <sup>1</sup>		Steel-mill shapes and forms <sup>2</sup>		Cost of round or hewn woods products and stumpage <sup>3</sup> (\$1,000)	Cost of other supplies (\$1,000)	Cost of supplies un- distributed by type (\$1,000)
			Pounds (1,000)	Cost (\$1,000)	Short tons	Cost (\$1,000)			
	Mountain:								
	1958.....	(D)	2,971	569	31,086	2,966	742	(D)	1,753
	1954.....	(D)	3,369	757	11,779	1,561	770	(D)	...
	Montana:								
	1958.....	(D)	39	6	44	6	9	(D)	44
	1954.....	197	83	16	26	6	8	167	...
	Wyoming:								
	1958.....	(D)	281	54	235	73	41	(D)	17
	1954.....	1,789	739	137	4,427	682	157	813	...
	Colorado:								
	1958.....	(D)	1,249	188	2,809	409	278	(D)	506
	1954.....	1,956	893	158	2,296	308	249	1,241	...
	New Mexico:								
	1958.....	138	37	10	793	65	7	22	34
	1954.....	(D)	47	8	3	1	3	(D)	...
	Utah:								
	1958.....	(D)	1,365	311	27,205	2,413	407	(D)	1,152
	1954.....	(D)	1,601	438	5,027	564	352	(D)	...
	Pacific (Washington):								
	1958.....	(D)	157	32	166	26	84	(D)	54
	1954 (includes Oregon).....	(D)	428	94	66	14	185	(D)	...
	Type of Operation: 1958								
	Producing establishments, total.....	349,232	219,076	26,116	427,146	49,770	20,863	202,643	49,838
	Mines only, total.....	88,094	50,657	5,640	101,408	9,190	4,079	31,953	37,232
	Strip-pit.....	19,797	32,771	3,026	5,470	1,017	45	8,739	6,970
	Underground.....	61,280	13,235	2,028	89,819	7,240	3,696	20,425	27,891
	Auger.....	1,450	74	11	122	32	...	446	961
	Strip-pit and underground.....	291	135	23	478	76	19	81	92
	Strip-pit and auger.....	3,026	3,794	433	735	218	30	1,105	1,240
	Other combinations.....	2,250	648	119	4,784	607	289	1,157	78
	Mines with preparation plants, total.....	254,125	168,419	20,476	320,469	39,672	16,744	166,506	10,727
	With mechanical cleaning:								
	Strip-pit.....	25,997	75,945	6,578	11,492	3,169	72	14,740	1,438
	Underground.....	159,040	39,704	7,582	254,551	29,792	13,271	108,395	...
	Strip-pit and underground.....	9,518	4,357	371	5,034	955	376	7,352	464
	Strip-pit and auger.....	(D)	7,886	711	341	120	4	(D)	476
	Underground and auger.....	(D)	550	103	4,153	576	452	(D)	1,471
	Other combinations, auger only, and dredge.....	2,342	1,164	185	749	550	318	1,289	...
	With mechanical crushing, screening, or sizing only:								
	Strip-pit.....	16,398	22,656	2,663	2,089	573	74	8,580	4,508
	Underground.....	24,593	6,690	1,254	39,061	3,452	1,934	17,953	...
	Auger.....	843	31	6	211	37	13	189	598
	Strip-pit and underground.....	676	839	150	1,843	208	152	166	...
	Strip-pit and auger.....	4,560	7,046	736	457	102	7	3,322	393
	Other combinations.....	2,621	1,551	137	488	138	71	896	1,379
	Preparation plants only, total.....	7,013	...	...	5,269	908	40	4,186	1,879
	Mechanical cleaning.....	6,163	...	...	5,104	874	35	3,375	1,879
	Mechanical crushing, screening, or sizing only.....	850	...	...	165	34	5	811	...
	Nonproducing establishments.....	300	45	5	704	79	10	206	...
1212	LIGNITE:								
	United States, total:								
	1958.....	1,133	176	33	124	88	...	880	132
	1954.....	627	260	39	80	18	3	567	...
	East and South:								
	1958.....	1,074	161	30	124	88	...	851	105
	1954.....	611	225	34	80	18	3	556	...
	Mountain (Montana):								
	1958.....	59	15	3	...	...	...	29	27
	1954 <sup>5</sup> .....	16	35	5	...	...	...	11	...

See footnotes at end of table.



Table 7.—Supplies Used in the Bituminous Coal and Lignite Mining Industries, by Division and State, 1958 and 1954, and Type of Operation: 1958—Continued

Ind. code	Industry, division, State, type of operation, and year	Total cost of supplies used (\$1,000)	Explosives <sup>1</sup>		Steel-mill shapes and forms <sup>2</sup>		Cost of round or hewn woods products and stumpage <sup>3</sup> (\$1,000)	Cost of other supplies (\$1,000)	Cost of supplies un-distributed by type (\$1,000)
			Pounds (1,000)	Cost (\$1,000)	Short tons	Cost (\$1,000)			
	<u>By Type of Operation:</u> <u>1958</u>								
	Strip pits:								
	Mines only.....	189	8	2	...	...	...	141	46
	Mines with mechanical crushing, screening, or sizing only.....	918	168	31	124	88	...	739	60
	Underground (mines only).....	26	...	...	...	...	...	...	26
1213	COAL STRIPPING SERVICES, NEC:								
	All establishments:								
	1958.....	3,071	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	3,071
	1954.....	42,650	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2,650
1214	COAL MINING SERVICES, NEC:								
	All establishments:								
	1958.....	627	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	627
	1954.....	4341	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	493

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>Excludes blasting accessories and breaking agents.<sup>2</sup>Represents such items as rails, wheels, track accessories, roof bolts, plates, pipe, tubing, piling, drill steel bars, other bars, sheets, strip, wire, wire products, and structural shapes.<sup>3</sup>Represents such items as logs, bolts, hewn cross ties, and hewn or round mine timbers and ties. Includes stumpage charges for woods products produced at the establishment but excludes land values and logging costs.<sup>4</sup>Includes purchases for resale without further processing.<sup>5</sup>Includes data for 1 establishment in California.

Table 8A.—General Statistics for Establishments Classified by Output Per Man-Hour, by Selected Types of Operation, in the United States: 1958

Ind. code	Industry, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1211	BITUMINOUS COAL (ALL ESTABLISHMENTS), TOTAL.....	6,715	185,676	902,759	161,711	264,308	751,584	1,585,541	2,390,677	183,967
	Producing establishments, total.....	6,669	185,453	901,682	161,534	264,042	750,682	1,584,981	2,390,677	172,957
	Mining operations only:									
	Strip-pit, total.....	737	5,657	26,408	5,055	8,876	23,170	71,646	105,115	7,877
	Less than 0.40.....	6	31	106	27	42	88	95	163	8
	0.40-0.79.....	16	94	372	88	182	349	448	565	13
	0.80-0.99.....	19	128	544	117	243	498	793	915	223
	1.00-1.19.....	20	224	924	208	396	820	991	1,815	171
	1.20-1.39.....	20	233	1,154	211	449	1,028	1,484	2,299	76
	1.40-1.59.....	35	303	1,150	272	517	1,080	1,895	2,910	221
	1.60-1.79.....	17	192	770	179	320	648	1,440	1,964	258
	1.80-1.99.....	16	185	790	151	308	703	1,709	2,172	122
	2.00-2.39.....	47	399	1,779	365	665	1,619	3,758	5,066	916
	2.40-2.79.....	28	325	1,397	278	531	1,264	3,597	4,948	565
	2.80-2.99.....	12	183	1,050	165	330	917	2,082	3,692	216
	3.00-3.19.....	17	185	830	165	298	753	2,747	3,500	170
	3.20-3.59.....	21	313	1,458	279	431	1,274	3,829	5,443	323
	3.60-3.99.....	15	177	1,056	168	302	1,008	3,031	4,309	159
	4.00-5.99.....	33	404	2,000	355	558	1,706	6,952	9,309	239
	6.00-7.99.....	12	429	2,806	407	610	2,321	11,989	15,083	178
	8.00 and over.....	12	253	1,626	209	351	1,253	7,044	9,129	284
	Undistributed <sup>2</sup> .....	391	1,599	6,596	1,411	2,343	5,841	17,762	31,833	3,735
	Underground, total.....	3,926	42,067	154,376	37,889	57,788	135,047	247,103	328,973	18,035
	Less than 0.20.....	88	388	1,048	351	579	909	1,266	2,232	131
	0.20-0.39.....	115	1,193	4,420	1,112	1,990	4,122	7,046	8,467	258
	0.40-0.59.....	210	2,055	5,179	1,871	3,297	4,932	6,808	8,036	619
	0.60-0.79.....	333	4,946	16,183	4,627	7,491	14,626	18,774	25,288	1,030
	0.80-0.99.....	292	4,399	13,795	4,051	5,981	12,697	17,604	23,121	1,035
	1.00-1.19.....	329	4,979	17,748	4,542	6,626	15,735	25,207	32,849	1,752
	1.20-1.39.....	213	2,134	7,379	1,958	2,788	6,592	11,384	14,948	846
	1.40-1.59.....	182	4,002	18,209	3,558	5,143	15,343	27,785	34,816	2,378
	1.60-1.79.....	130	2,207	10,081	1,955	3,004	8,561	18,465	23,094	1,231
	1.80-1.99.....	81	3,065	15,769	2,704	4,139	12,846	24,652	32,318	864
	2.00-2.39.....	184	1,961	7,202	1,756	2,116	6,309	14,766	19,004	1,790
	2.40-2.99.....	112	2,940	14,502	2,600	4,039	12,494	29,803	39,804	1,146
	3.00 and over.....	97	1,259	4,847	1,084	1,261	4,005	10,141	13,470	612
	Undistributed <sup>2</sup> .....	1,560	6,539	18,014	5,720	9,334	15,876	33,402	51,526	4,343
	Auger, total.....	116	624	2,485	547	870	2,198	5,862	9,405	696
	Less than 1.00.....	6	51	195	49	88	191	145	300	41
	1.00-1.99.....	15	81	354	76	144	333	489	648	31
	2.00-2.99.....	26	131	489	116	185	428	1,019	1,595	128
	3.00-3.99.....	7	33	141	26	44	130	434	528	99
	4.00-5.99.....	7	36	191	31	57	171	476	828	54
	6.00 and over.....	5	44	152	29	30	127	513	605	1
	Undistributed <sup>2</sup> .....	50	248	963	220	322	818	2,786	4,901	342
	Combination.....	83	2,180	11,199	1,892	3,310	9,382	27,263	37,306	2,792
	Mining operations with preparation plants:									
	With mechanical cleaning:									
	Strip-pit, total.....	112	8,421	54,752	6,955	13,243	44,443	138,140	189,911	16,521
	Less than 1.00.....	6	95	386	73	160	335	447	653	51
	1.00-1.19.....	5	185	786	170	311	716	1,249	1,669	79
	1.20-1.59.....	6	251	1,256	233	452	1,116	2,402	2,871	373
	1.60-1.99.....	8	313	1,843	284	597	1,669	3,790	5,220	344
	2.00-2.39.....	6	365	2,222	305	572	1,852	4,925	5,760	1,069
	2.40-2.79.....	8	541	3,328	485	906	2,799	7,044	10,132	827
	2.80-3.19.....	11	933	5,911	835	1,514	5,123	13,678	18,233	2,019
	3.20-3.59.....	8	847	5,785	750	1,377	5,010	14,802	18,471	517
	3.60-3.99.....	6	666	4,116	607	1,096	3,705	12,525	16,213	657
	4.00-4.99.....	15	1,567	11,355	1,366	2,633	9,445	28,942	42,924	2,492
	5.00-5.99.....	11	1,164	8,157	1,003	1,925	7,196	27,172	38,167	4,940
	6.00 and over.....	3	275	1,559	245	779	1,701	9,735	12,009	815
	Undistributed <sup>2</sup> .....	19	1,219	8,048	599	921	3,776	11,429	17,589	2,338
	Underground, total.....	400	87,471	470,574	74,534	121,952	378,515	768,319	1,008,966	83,654
	Less than 0.40.....	4	208	479	197	242	450	298	613	30
	0.40-0.59.....	8	727	2,857	665	1,069	2,689	3,381	4,269	12
	0.60-0.79.....	35	4,780	21,220	4,397	6,230	18,789	24,918	32,143	1,896
	0.80-0.99.....	38	7,104	34,630	6,438	9,798	30,171	45,771	60,325	3,643
	1.00-1.19.....	57	15,202	67,955	11,987	19,359	59,919	103,019	133,488	8,483
	1.20-1.39.....	57	15,555	82,976	13,933	22,610	70,763	141,959	180,669	7,852
	1.40-1.59.....	37	9,491	52,519	8,788	14,776	47,305	96,265	122,067	6,368
	1.60-1.79.....	32	8,217	45,627	7,464	12,696	39,812	89,321	115,094	5,077

See footnotes at end of table.



Table 8A.—General Statistics for Establishments Classified by Output Per Man-Hour, by Selected Types of Operation, in the United States. 1958—Continued

Ind. code	Industry, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
	BITUMINOUS COAL (ALL ESTABLISHMENTS)—Con.									
	Producing establishments—Continued									
	Mining operations with preparation plants—Continued									
	With mechanical cleaning—Continued									
	Underground—Continued									
	1.80-1.99.....	37	10,578	56,002	9,654	15,794	49,277	106,036	144,020	6,407
	2.00-2.39.....	27	4,566	25,958	4,006	7,099	22,068	53,243	72,372	5,871
	2.40-2.99.....	25	4,406	25,111	3,943	6,846	21,385	56,397	83,186	3,095
	3.00-3.99.....	8	344	1,818	296	515	1,650	3,380	7,171	141
	4.00 and over.....	11	772	4,376	r 634	r 1,128	r 3,496	r 11,671	r 31,576	r 317
	Undistributed <sup>2</sup> .....	24	7,521	r 49,046	r 2,132	r 3,790	r 10,741	r 32,660	r 21,973	r 34,462
	Auger, dredge, and combination.....	62	7,925	41,583	7,223	11,838	37,378	70,799	107,587	12,965
	With mechanical crushing, screening, or sizing only:									
	Strip-pit, total.....	331	6,251	28,539	5,429	10,367	24,913	65,470	99,935	10,336
	Less than 1.00.....	14	315	1,267	286	519	1,153	1,621	2,619	423
	1.00-1.19.....	21	460	1,854	432	850	1,669	2,818	4,104	479
	1.20-1.59.....	34	750	3,339	652	1,329	3,042	5,406	8,398	584
	1.60-1.99.....	22	691	2,659	547	1,092	2,397	5,956	8,836	657
	2.00-2.39.....	25	536	2,618	475	990	2,255	6,661	8,769	1,123
	2.40-2.79.....	19	558	3,105	505	927	2,649	6,069	9,330	645
	2.80-3.19.....	10	309	1,514	220	460	1,195	3,396	6,109	190
	3.20-3.59.....	8	265	1,169	245	365	1,011	3,621	4,938	502
	3.60-3.99.....	8	210	950	191	339	876	3,295	4,238	295
	4.00-4.99.....	13	201	1,207	162	298	960	4,815	5,002	1,633
	5.00-5.99.....	7	118	710	103	191	618	1,411	2,503	201
	6.00 and over.....	6	112	696	101	193	598	3,014	3,351	490
	Undistributed <sup>2</sup> .....	144	1,726	7,451	1,510	2,814	6,490	17,387	31,738	3,114
	Underground, total.....	583	18,724	82,679	16,752	26,598	71,398	129,031	178,853	9,990
	Less than 0.40.....	3	19	47	17	28	43	74	95	16
	0.40-0.59.....	58	1,698	5,992	1,561	2,567	5,337	7,211	7,979	1,463
	0.60-0.79.....	70	2,227	8,122	2,026	3,097	7,209	11,034	13,311	307
	0.80-0.99.....	62	3,734	18,267	3,460	5,827	16,545	26,056	32,249	926
	1.00-1.19.....	48	1,972	9,192	1,820	2,848	8,005	14,200	20,427	860
	1.20-1.39.....	38	2,439	11,413	2,121	3,219	9,409	21,696	27,036	1,086
	1.40-1.59.....	20	792	2,951	707	956	2,522	4,772	6,049	251
	1.60-1.79.....	19	858	4,358	758	1,340	3,890	7,722	10,205	449
	1.80-1.99.....	12	578	2,868	467	860	2,417	4,802	6,826	73
	2.00-2.39.....	15	1,357	7,433	1,151	2,024	6,181	10,434	18,255	1,515
	2.40-2.99.....	17	529	2,640	475	659	2,114	5,181	7,898	529
	3.00-3.99.....	12	274	1,025	251	316	928	2,084	4,923	177
	4.00 and over.....	7	139	452	132	157	414	1,074	2,627	70
	Undistributed <sup>2</sup> .....	202	2,108	7,919	1,806	2,700	6,384	12,691	20,973	2,268
	Auger, total.....	20	260	1,006	223	274	826	2,208	3,367	432
	1.00-1.99.....	3	42	153	36	44	114	166	223	...
	2.00-3.99.....	5	67	279	62	77	261	618	661	284
	4.00 and over.....	5	61	207	50	53	159	758	972	98
	Undistributed <sup>2</sup> .....	7	90	367	75	100	292	666	1,511	50
	Combination.....	89	2,629	12,528	2,291	4,408	10,813	25,741	45,903	3,574
	Preparation plants only:									
	Mechanical cleaning, total.....	59	2,186	11,514	1,865	3,034	9,363	22,966	213,339	5,440
	2.00-3.99.....	9	275	1,417	224	471	1,235	3,523	7,973	352
	5.00-6.99.....	6	79	414	54	79	234	702	1,665	26
	7.00-9.99.....	10	580	3,047	512	781	2,684	3,975	40,553	302
	10.00-11.99.....	12	420	2,114	355	597	1,870	5,289	41,969	9
	12.00-14.99.....	5	244	1,142	212	327	933	3,274	23,331	119
	15.00-19.99.....	7	103	689	87	124	409	1,320	8,687	81
	20.00 and over.....	5	131	881	112	220	614	1,770	34,244	603
	Undistributed <sup>2</sup> .....	5	354	1,810	309	435	1,384	3,113	54,917	3,948
	Mechanical crushing, screening, or sizing only, total.....	151	1,058	4,039	879	1,484	3,236	10,433	62,017	645
	Less than 2.00.....	10	92	284	66	142	269	406	625	47
	2.00-3.99.....	19	139	457	138	216	319	841	2,805	93
	4.00-4.99.....	6	21	103	20	50	99	173	1,131	6
	5.00-5.99.....	9	45	161	38	66	129	262	1,723	14
	6.00-6.99.....	4	38	139	34	66	119	218	1,736	57
	7.00-7.99.....	4	38	147	32	47	110	398	1,770	...
	8.00-9.99.....	5	117	662	95	213	478	1,503	11,310	71
	10.00-11.99.....	7	63	353	55	91	158	480	4,242	10
	12.00-14.99.....	16	133	521	112	195	430	1,957	11,245	124
	15.00-19.99.....	15	100	400	83	111	309	975	5,441	17
	20.00 and over.....	r 8	51	233	42	r 59	r 187	r 1,360	7,106	12
	Undistributed <sup>2</sup> .....	r 48	221	579	164	r 228	r 629	r 1,860	12,883	194
	Nonproducing establishments.....	46	223	1,077	177	266	902	560	...	11,010

See footnotes at end of table.

Table 8A.—General Statistics for Establishments Classified by Output Per Man-Hour, by Selected Types of Operation, in the United States: 1958—Continued

Ind. code	Industry, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1212	LIGNITE (ALL ESTABLISHMENTS), TOTAL.....	58	510	2,693	437	844	2,261	9,309	11,035	1,432
	Strip pits, total.....	47	493	2,655	421	822	2,224	9,233	10,934	1,430
	Less than 1.20.....	4	25	91	22	48	80	135	186	43
	1.20-2.39.....	5	14	53	13	24	50	141	164	15
	2.40-3.19.....	4	75	359	66	139	308	737	996	29
	3.20-4.99.....	3	95	451	85	157	384	1,153	1,452	1,151
	5.00 and over.....	6	257	1,609	211	416	1,330	6,639	7,671	89
	Undistributed <sup>2</sup> .....	25	27	92	24	38	72	428	465	103
	Underground mines.....	11	17	38	16	22	37	76	101	2

<sup>1</sup>Represents tons of coal shipped per man-hour worked by production and development workers.

<sup>2</sup>Represents establishments reporting no coal shipments, or no production or development worker man-hours, or cost of contract work amounting to 30 percent or more of production and development worker wages, or number of working proprietors amounting to 30 percent or more of number of production and development workers, or man-hours spent on development and exploration work amounting to 30 percent or more of total man-hours worked by production and development workers. For number and payroll of "All employees", includes figures for separately reported central offices and related facilities.

Table 8B.—General Statistics for Establishments in the Bituminous Coal Industry Classified by Output Per Man-Hour, by Selected Types of Operation, for Selected States: 1958

(These data are from a tabulation compiled for 1958 at the request of the Indiana University Research Committee; similar statistics are included in previous Censuses of Mineral Industries)

Ind. code	State, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1211	Pennsylvania.....	1,312	36,873	183,486	31,747	51,153	148,109	286,384	450,022	31,881
	Producing establishments:									
	Mining operations only:									
	Strip-pit, total.....	288	1,746	7,492	1,546	2,783	6,785	19,092	29,523	3,399
	Less than 0.80.....	6	25	83	22	29	72	104	183	9
	0.80-0.99.....	10	55	229	53	109	219	312	369	76
	1.00-1.19.....	9	90	411	83	161	360	442	663	53
	1.20-1.39.....	7	77	350	71	126	319	417	689	19
	1.40-1.59.....	13	151	575	130	245	521	927	1,377	120
	1.60-1.79.....	7	42	152	39	67	144	268	440	39
	1.80-1.99.....	5	45	173	29	59	154	382	457	50
	2.00-2.39.....	17	157	677	147	255	611	1,689	2,184	512
	2.40-2.79.....	7	106	394	76	151	333	887	1,491	77
	2.80-2.99.....	6	71	414	65	139	363	1,113	1,659	119
	3.00-3.19.....	5	49	231	39	72	181	518	916	83
	3.20-3.59.....	6	94	413	89	129	405	1,261	1,620	112
	3.60-3.99.....	7	35	162	33	55	158	686	900	18
	4.00-5.99.....	10	87	406	71	120	370	1,312	1,686	56
	6.00-7.99.....	3	20	113	17	32	104	488	627	6
	8.00 and over.....	5	32	55	19	14	37	417	506	...
	Undistributed <sup>2</sup> .....	165	610	2,654	563	1,020	2,434	7,869	13,756	2,050
	Underground, total.....	589	8,246	38,969	7,415	11,485	32,997	59,296	76,164	2,891
	Less than 0.20.....	21	81	232	72	121	195	285	503	42
	0.20-0.39.....	18	159	314	140	162	278	380	465	27
	0.40-0.59.....	48	353	1,177	334	575	1,128	1,438	1,672	70
	0.60-0.79.....	59	993	4,214	886	1,269	3,521	4,576	5,373	87
	0.80-0.99.....	37	957	4,176	854	1,248	3,586	3,833	5,731	54
	1.00-1.19.....	36	1,193	5,569	1,060	1,646	4,735	7,618	9,631	337
	1.20-1.39.....	17	266	1,232	215	266	805	1,584	1,902	78
	1.40-1.59.....	16	326	1,659	265	360	1,100	2,150	2,824	59
	1.60-1.79.....	11	1,098	6,596	957	1,697	5,401	11,435	14,461	277
	1.80-1.99.....	6	1,004	5,799	914	1,599	5,000	9,123	12,492	21
	2.00-2.39.....	14	712	3,645	655	957	3,071	7,854	9,569	1,169
	2.40-2.99.....	7	438	2,357	433	713	2,326	5,462	6,898	110
	3.00 and over.....	5	11	31	10	9	26	167	205	13
	Undistributed <sup>2</sup> .....	294	655	1,968	620	863	1,825	3,391	4,438	547
	Mining operations with preparation plants:									
	With mechanical cleaning:									
	Strip-pit, total.....	22	869	4,662	788	1,539	3,975	9,531	14,254	1,902
	Less than 1.20.....	5	50	170	48	71	160	256	378	14
	1.20-1.99.....	6	311	1,629	296	578	1,513	3,467	4,299	477
	2.00-2.39.....	3	141	747	109	219	570	1,578	1,915	161
	2.40-2.79.....	3	205	1,238	185	377	964	2,115	3,571	592
	Undistributed <sup>2</sup> .....	5	162	878	150	294	768	2,115	4,091	658

See footnotes at end of table.



Table 8B.—General Statistics for Establishments in the Bituminous Coal Industry Classified by Output Per Man-Hour, by Selected Types of Operation, for Selected States: 1958—Continued

Ind. code	State, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1211	Pennsylvania—Continued									
	Producing establishments—Continued									
	Mining operations with preparation plants—Continued									
	With mechanical cleaning—Continued									
	Underground, total.....	66	18,029	97,183	15,027	23,310	73,471	140,032	184,027	9,427
	Less than 0.80.....	8	1,687	7,651	1,508	2,088	6,379	8,380	11,322	978
	0.80-0.99.....	13	2,941	13,894	2,757	3,989	12,485	18,890	25,232	1,803
	1.00-1.19.....	15	3,757	20,183	3,343	5,529	17,307	30,390	38,381	1,805
	1.20-1.39.....	13	5,342	27,514	4,736	7,020	22,086	45,329	58,311	2,339
	1.40-1.59.....	4	734	4,249	673	1,135	3,791	8,126	10,124	494
	1.60-1.79.....	4	889	5,719	835	1,599	5,235	9,873	12,692	1,251
	1.80 and over.....	6	1,232	7,210	1,104	1,819	5,773	17,392	26,386	424
	Undistributed <sup>2</sup> .....	3	1,447	10,763	71	131	415	1,652	1,579	333
	With mechanical crushing, screening, or sizing only:									
	Strip-pit, total.....	127	2,231	8,662	1,929	3,807	7,767	18,673	32,382	3,198
	Less than 1.00.....	7	122	412	112	213	383	485	856	311
	1.00-1.19.....	11	309	1,200	295	562	1,117	1,645	2,514	300
	1.20-1.59.....	12	230	1,017	217	459	955	1,736	2,637	217
	1.60-1.99.....	10	379	1,263	269	594	1,162	2,861	4,490	348
	2.00-2.39.....	7	112	364	103	178	323	1,274	1,542	510
	2.40-2.79.....	8	145	705	141	300	686	1,744	3,154	275
	2.80-3.59.....	3	78	332	47	60	199	580	740	38
	3.60-3.99.....	3	50	200	43	89	180	626	999	123
	4.00 and over.....	4	20	63	18	17	59	207	324	7
	Undistributed <sup>2</sup> .....	62	786	3,106	684	1,335	2,703	7,515	15,126	1,069
	Underground, total.....	112	2,997	13,316	2,613	3,952	11,493	17,901	26,457	2,099
	Less than 0.60.....	12	218	669	190	278	558	739	882	17
	0.60-0.79.....	21	707	2,664	636	920	2,349	3,207	3,918	94
	0.80-0.99.....	14	918	4,622	880	1,327	4,331	6,070	7,062	200
	1.00-1.19.....	11	146	710	114	189	542	1,002	1,197	35
	1.20-1.59.....	4	44	180	40	52	155	270	354	25
	1.60-1.79.....	3	38	140	33	57	128	537	460	286
	1.80-1.99.....	4	92	384	77	97	341	543	1,078	3
	2.00-2.39.....	3	492	3,051	396	753	2,414	3,711	7,663	1,341
	2.40-2.99.....	3	68	247	57	67	181	648	929	10
	3.00 and over.....	5	54	180	44	65	160	336	1,535	35
	Undistributed <sup>2</sup> .....	32	220	469	146	147	334	838	1,379	53
	Preparation plants only:									
	Mechanical cleaning, total.....	11	493	2,579	449	718	2,277	5,360	57,386	657
	Less than 15.00.....	5	364	1,834	338	517	1,652	3,854	38,567	34
	15.00 and over.....	5	39	206	29	52	152	1,045	12,121	131
	Undistributed <sup>2</sup> .....	1	90	539	82	149	473	461	6,698	492
	Mechanical crushing, screening, or sizing only, total.....	22	128	471	92	149	327	678	4,451	70
	Less than 4.00.....	4	22	73	20	27	67	178	348	8
	4.00-6.99.....	4	24	74	23	35	67	80	788	13
	10.00 and over.....	5	17	60	14	23	51	207	1,422	37
	Undistributed <sup>2</sup> .....	9	65	264	35	64	142	213	1,893	12
	Ohio.....	383	9,938	53,419	8,282	14,361	41,417	100,122	165,263	12,028
	Producing establishments:									
	Mining operations only:									
	Strip-pit, total.....	97	1,371	7,096	1,234	2,096	6,018	22,324	29,275	1,526
	Less than 1.00.....	4	54	263	49	121	231	317	375	99
	1.00-1.39.....	4	52	238	47	106	218	415	587	12
	1.40-1.79.....	6	98	397	89	164	340	666	905	187
	1.80-1.99.....	4	63	273	57	121	252	596	732	40
	2.00-2.39.....	6	80	307	69	127	273	660	858	242
	2.40-2.79.....	4	95	529	89	187	487	1,177	1,603	252
	3.00-3.59.....	6	130	698	107	175	557	1,139	2,058	148
	4.00-5.99.....	8	216	1,194	197	326	1,002	4,464	5,849	21
	6.00-7.99.....	4	357	2,431	340	513	1,991	10,706	13,339	171
	Undistributed <sup>2</sup> .....	51	226	766	190	256	667	2,184	2,969	354
	Underground, total.....	107	931	2,882	818	1,096	2,470	5,745	6,971	409
	Less than 0.60.....	13	112	199	89	167	195	319	381	29
	0.60-0.79.....	12	106	260	96	146	219	313	444	43
	0.80-0.99.....	11	143	431	139	183	420	571	792	32
	1.00-1.19.....	10	67	144	67	62	135	216	303	48
	1.20-1.39.....	4	20	64	17	21	58	97	122	...
	1.40-1.99.....	7	38	127	28	46	96	362	475	30
	2.00 and over.....	6	353	1,474	298	379	1,146	3,368	3,998	91
	Undistributed <sup>2</sup> .....	44	92	183	84	92	201	499	456	136

See footnotes at end of table.

Table 8B.—General Statistics for Establishments in the Bituminous Coal Industry Classified by Output Per Man-Hour, by Selected Types of Operation, for Selected States: 1958—Continued

Ind. code	State, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1211	Ohio—Continued									
	Producing establishments—Continued									
	Mining operations with preparation plants:									
	With mechanical cleaning:									
	Underground, total.....	12	3,108	20,251	2,247	3,907	12,809	24,987	31,436	855
	Less than 1.60.....	5	1,117	7,153	848	1,443	4,816	7,547	9,308	234
	1.60-1.99.....	3	1,429	9,505	1,046	1,884	6,083	12,457	15,774	369
	2.00-2.79.....	4	562	3,593	353	580	1,910	4,983	6,354	252
	With mechanical crushing, screening, or sizing only:									
	Strip-pit, total.....	72	1,670	8,429	1,446	2,960	7,181	17,490	26,915	2,642
	Less than 1.20.....	6	85	372	77	157	331	480	708	37
	1.20-1.59.....	9	286	1,321	216	548	1,145	1,680	3,091	225
	1.60-1.99.....	4	100	482	89	198	430	1,077	1,434	95
	2.00-2.39.....	7	215	1,165	180	415	932	2,368	3,341	115
	2.40-2.79.....	4	127	763	113	230	603	1,167	2,042	82
	2.80-3.19.....	5	134	751	109	218	575	1,234	2,805	119
	3.20-3.59.....	3	168	683	160	248	626	2,321	2,979	502
	3.60-3.99.....	3	129	642	119	214	594	2,327	2,843	119
	4.00 and over.....	7	145	924	123	229	759	2,210	3,172	234
	Undistributed <sup>2</sup> .....	24	281	1,326	260	503	1,186	2,626	4,500	1,114
	Underground, total.....	38	550	2,011	504	742	1,826	2,683	3,289	119
	0.40-0.59.....	3	82	222	80	133	217	288	307	12
	0.60-0.79.....	5	91	305	79	133	262	373	457	10
	0.80-0.99.....	7	201	830	182	264	738	1,029	1,247	29
	1.00-1.59.....	5	121	521	114	160	486	753	919	63
	1.80-2.99.....	3	23	38	18	13	31	63	114	2
	Undistributed <sup>2</sup> .....	15	32	95	31	39	92	177	245	3
	Indiana.....	88	4,104	22,853	3,411	5,724	18,213	44,268	61,014	4,796
	Mining operations only:									
	Strip-pit, total.....	23	283	1,935	244	472	1,584	8,533	11,048	378
	Less than 1.00.....	3	19	105	18	34	100	209	227	20
	1.00-1.99.....	4	28	146	19	47	107	289	379	36
	2.00-3.19.....	3	19	83	15	22	65	188	214	11
	3.20 and over.....	5	160	1,183	141	255	923	4,896	6,239	259
	Undistributed <sup>2</sup> .....	8	57	418	51	114	389	2,951	3,989	52
	Mining operations with preparation plants:									
	With mechanical cleaning:									
	Strip-pit, total.....	11	1,145	7,173	952	1,598	5,643	17,757	22,643	629
	Less than 4.00.....	6	662	4,066	544	938	3,286	9,192	11,483	216
	4.00-5.99.....	5	483	3,107	408	660	2,357	8,565	11,160	413
	Illinois.....	141	11,139	66,591	9,870	18,057	56,812	138,893	186,772	12,595
	Producing establishments:									
	Mining operations only:									
	Strip-pit, total.....	18	153	929	136	246	794	2,639	3,811	100
	Less than 2.80.....	4	45	354	37	73	286	439	597	15
	2.80 and over.....	6	83	457	76	129	398	1,892	2,749	61
	Undistributed <sup>2</sup> .....	8	25	118	23	44	110	308	465	24
	Underground, total.....	31	744	3,671	698	1,200	3,383	7,172	8,887	542
	Less than 0.60.....	5	26	72	26	70	72	102	113	1
	0.60-0.99.....	4	26	81	26	37	81	127	164	1
	1.00-1.79.....	4	37	174	35	61	152	203	299	40
	1.80-2.39.....	4	33	157	29	47	149	258	313	13
	2.40 and over.....	4	516	2,785	489	831	2,591	5,849	7,176	402
	Undistributed <sup>2</sup> .....	10	106	402	93	154	338	633	822	85
	Mining operations with preparation plants:									
	With mechanical cleaning:									
	Strip-pit, total.....	33	3,263	22,722	2,875	5,628	19,829	61,129	86,782	7,077
	2.00-2.39.....	3	224	1,475	196	353	1,282	3,347	3,845	908
	2.40-2.99.....	4	486	3,208	424	794	2,753	6,933	8,754	642
	3.00-3.19.....	3	270	1,823	253	482	1,639	5,010	6,370	1,422
	3.20-3.59.....	3	240	1,746	229	448	1,670	5,193	6,387	123
	3.60-3.99.....	4	517	3,338	468	920	3,015	10,563	13,511	488
	4.00-4.99.....	9	870	6,321	758	1,486	5,321	15,696	24,851	1,579
	5.00-5.99.....	4	474	3,461	419	865	3,085	10,481	18,300	811
	Undistributed <sup>2</sup> .....	3	182	1,350	128	280	1,064	3,906	4,764	1,104
	Underground, total.....	27	6,514	37,660	5,724	10,352	31,289	65,209	83,901	3,985
	Less than 1.00.....	6	473	2,737	451	926	2,613	4,365	5,940	21
	1.20-1.39.....	4	766	3,880	738	1,177	3,712	5,188	6,364	320
	1.40-1.79.....	4	481	2,387	423	710	1,960	3,644	4,901	328

See footnotes at end of table.



Table 8B.—General Statistics for Establishments in the Bituminous Coal Industry Classified by Output Per Man-Hour, by Selected Types of Operation, for Selected States: 1958—Continued

Ind. code	State, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1211	Illinois—Continued									
	Mining operations with preparation plants—Continued									
	With mechanical cleaning—Continued									
	Underground—Continued									
	1.80-1.99.....	4	1,358	7,150	1,262	2,073	6,350	12,186	15,665	527
	2.00-2.39.....	3	1,220	7,614	1,121	2,311	6,889	15,880	20,714	993
	2.40-2.99.....	3	1,301	7,251	1,176	2,131	6,304	16,175	20,862	330
	3.00-3.99.....	1								
	Undistributed <sup>2</sup> .....	2	915	6,641	553	1,024	3,461	7,771	9,455	1,466
	With mechanical crushing, screening, or sizing only:									
	Underground, total.....	19	385	1,209	365	503	1,154	1,696	2,175	86
	Less than 0.60.....	5	67	202	66	119	202	192	285	12
	0.60-0.79.....	3	115	295	115	132	288	429	509	5
	0.80-0.99.....	4	39	100	37	57	95	129	228	6
	1.00-1.79.....	4	102	499	93	146	466	697	916	28
	Undistributed <sup>2</sup> .....	3	62	113	54	49	103	249	237	35
	Iowa.....	59	421	1,436	395	765	1,321	3,552	4,779	560
	Mining operations only:									
	Strip-pit, total.....	17	50	192	48	92	184	620	747	86
	1.00-1.79.....	4	21	81	21	38	81	163	218	32
	1.80-2.99.....	3	23	92	22	43	88	279	374	26
	Undistributed <sup>2</sup> .....	10	6	19	5	11	15	178	155	28
	Underground, total.....	16	81	199	80	144	198	430	417	62
	0.20-0.39.....	3	29	73	29	58	73	115	105	15
	0.60-1.79.....	4	25	46	24	32	46	105	117	25
	Undistributed <sup>2</sup> .....	9	27	80	27	54	79	210	195	22
	Mining operations with preparation plants:									
	With mechanical crushing, screening, or sizing only:									
	Strip-pit, total.....	14	149	682	134	315	596	1,893	2,865	364
	1.20-3.59.....	5	96	453	86	198	378	1,246	1,608	199
	4.00-5.99.....	3	12	51	12	28	51	165	545	51
	Undistributed <sup>2</sup> .....	6	41	178	36	89	167	482	712	114
	Maryland.....	77	540	1,846	504	857	1,730	2,985	5,210	460
	Mining operations only:									
	Strip-pit, total.....	14	76	294	73	134	288	305	1,157	178
	0.40-1.58.....	3	20	71	19	36	70	129	166	24
	1.60-2.99.....	4	27	124	26	49	120	135	592	35
	Undistributed <sup>2</sup> .....	7	29	99	28	49	98	41	399	119
	Underground, total.....	50	265	799	244	385	734	1,175	1,376	57
	Less than 0.40.....	6	21	42	20	35	40	32	43	6
	0.40-0.59.....	12	103	324	101	189	319	443	533	17
	0.60-0.79.....	4	21	71	21	34	71	116	123	4
	0.80-0.99.....	6	64	236	54	80	194	314	373	3
	1.00-1.39.....	9	28	63	24	24	56	106	123	7
	1.40 and over.....	4	20	49	16	13	40	124	140	13
	Undistributed <sup>2</sup> .....	9	8	14	8	10	14	40	41	7
	Virginia.....	869	13,737	53,097	11,950	18,670	45,004	100,135	151,825	28,721
	Producing establishments:									
	Mining operations only:									
	Strip-pit, total.....	21	194	682	174	277	602	1,947	2,574	360
	Less than 1.00.....	3	23	76	21	34	65	54	80	2
	1.00-2.39.....	3	43	116	38	54	89	184	217	26
	2.40-3.19.....	5	64	242	56	89	215	747	913	79
	3.20 and over.....	3	12	35	9	10	26	108	181	7
	Undistributed <sup>2</sup> .....	7	52	213	50	90	207	854	1,183	246
	Underground, total.....	727	6,949	19,114	6,344	9,215	17,705	31,349	43,251	3,456
	Less than 0.40.....	13	85	155	80	117	148	88	136	14
	0.40-0.59.....	28	331	817	311	597	799	1,092	1,358	68
	0.60-0.79.....	72	1,008	2,776	988	1,704	2,725	3,627	4,665	286
	0.80-0.99.....	75	1,093	2,913	990	1,575	2,745	4,497	5,515	470
	1.00-1.19.....	58	796	2,129	724	1,040	2,024	3,650	4,460	218
	1.20-1.39.....	53	458	1,381	425	615	1,276	2,015	3,062	155
	1.40-1.59.....	40	413	1,111	386	475	624	2,244	2,762	241
	1.60-1.79.....	32	303	956	275	365	888	1,901	2,294	510
	1.80-1.99.....	13	118	321	108	114	295	543	747	36
	2.00-2.39.....	43	317	892	288	288	831	1,597	2,183	158
	2.40-2.99.....	27	190	528	155	157	433	1,058	1,523	94
	3.00 and over.....	24	246	747	229	176	692	1,646	2,483	177
	Undistributed <sup>2</sup> .....	249	1,591	4,388	1,385	1,992	4,225	7,391	12,063	1,029

See footnotes at end of table.

Table 8B.—General Statistics for Establishments in the Bituminous Coal Industry Classified by Output Per Man-Hour, by Selected Types of Operation, for Selected States: 1958—Continued

Ind. code	State, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1211	Virginia—Continued									
	Producing establishments—Continued									
	Mining operations with preparation plants:									
	With mechanical cleaning:									
	Underground, total.....	20	3,877	20,535	3,123	5,241	15,898	40,211	42,693	23,003
	0.60-1.19.....	9	1,748	9,148	1,633	2,752	8,551	14,074	18,396	2,079
	1.20-1.59.....	3	705	3,701	636	1,067	3,269	6,609	8,820	362
	1.60 and over.....	6	830	4,468	754	1,311	4,006	7,308	15,032	1,075
	Undistributed <sup>2</sup> .....	2	594	3,218	100	111	72	12,220	445	19,487
	With mechanical crushing, screening, or sizing only:									
	Underground, total.....	37	995	4,261	837	1,394	3,642	6,596	9,646	273
	Less than 0.60.....	6	90	321	81	127	281	374	395	30
	0.60-0.79.....	7	179	726	147	269	630	899	1,073	115
	0.80-1.19.....	6	332	1,520	311	519	1,426	2,147	2,771	40
	1.40 and over.....	7	286	1,381	216	367	1,072	2,369	4,019	6
	Undistributed <sup>2</sup> .....	11	108	313	82	112	233	807	1,388	82
	Preparation plants only:									
	Mechanical cleaning, total.....	10	257	1,097	206	373	847	4,396	18,858	399
	Less than 10.00.....	4	160	716	131	250	576	2,393	9,282	336
	10.00 and over.....	6	97	381	75	123	271	2,003	9,576	63
	Mechanical crushing, screening, or sizing only, total.....	19	120	420	104	190	348	913	6,691	137
	Less than 6.00.....	3	30	104	27	58	93	36	783	31
	6.00-9.99.....	3	31	92	29	55	79	256	2,069	78
	10.00 and over.....	5	36	133	29	50	104	547	3,528	...
	Undistributed <sup>2</sup> .....	8	23	91	19	27	72	74	311	28
	West Virginia.....	1,704	61,634	307,369	54,220	89,663	261,052	533,574	779,262	55,381
	Producing establishments:									
	Mining operations only:									
	Strip-pit, total.....	95	715	3,100	628	1,163	2,709	5,029	9,821	639
	Less than 1.20.....	5	85	308	82	161	293	180	692	30
	1.20-1.39.....	5	43	172	38	73	156	234	402	10
	1.40-1.59.....	6	14	58	14	31	58	54	155	8
	1.60-1.99.....	3	50	239	45	88	167	522	636	2
	2.00-2.39.....	6	57	353	49	105	317	486	746	75
	2.40-2.79.....	6	51	176	42	42	138	219	534	25
	3.00-3.59.....	5	64	279	58	117	252	1,080	1,196	16
	3.60-3.99.....	3	49	182	46	64	162	447	609	17
	4.00-5.99.....	4	30	116	24	29	81	228	466	68
	6.00 and over.....	4	21	46	19	12	40	148	319	11
	Undistributed <sup>2</sup> .....	48	251	1,171	211	441	1,045	1,431	4,066	377
	Underground, total.....	1,087	13,153	52,105	11,746	19,233	44,729	82,697	108,970	6,068
	Less than 0.20.....	15	80	176	76	159	170	194	256	26
	0.20-0.39.....	21	516	2,598	477	896	2,415	5,035	6,124	61
	0.40-0.59.....	50	497	1,196	416	711	1,106	1,439	1,775	201
	0.60-0.79.....	81	1,450	5,746	1,337	2,416	5,116	5,512	9,003	251
	0.80-0.99.....	86	1,040	2,753	968	1,326	2,592	3,856	4,895	205
	1.00-1.19.....	112	1,252	3,748	1,189	1,579	3,556	5,831	7,567	358
	1.20-1.39.....	74	839	3,043	788	1,143	2,892	5,004	6,277	423
	1.40-1.59.....	64	1,873	9,109	1,632	2,371	7,373	12,875	16,049	1,704
	1.60-1.79.....	33	281	848	256	316	763	1,777	2,161	118
	1.80-1.99.....	29	1,680	9,003	1,455	2,179	6,980	13,486	17,264	658
	2.00-2.39.....	50	395	1,435	353	434	1,250	2,978	3,751	250
	2.40-2.99.....	30	1,206	6,451	1,024	1,670	5,279	13,416	17,627	302
	3.00 and over.....	28	261	876	211	203	682	1,685	2,328	140
	Undistributed <sup>2</sup> .....	414	1,783	5,123	1,564	3,830	4,555	9,609	13,893	1,371
	Auger, total.....	38	225	1,054	200	339	915	2,088	3,539	172
	Less than 1.00.....	4	45	172	44	80	170	141	279	41
	1.00-1.99.....	4	16	51	14	17	45	77	102	2
	2.00 and over.....	4	21	129	18	32	113	191	481	6
	Undistributed <sup>2</sup> .....	26	143	702	124	210	587	1,679	2,677	123
	Mining operations with preparation plants:									
	With mechanical cleaning:									
	Underground, total.....	165	36,506	197,781	31,618	52,155	165,320	350,737	462,020	35,467
	0.80.....	21	2,699	12,532	2,532	3,684	11,473	14,998	18,122	820
	0.80-0.99.....	13	2,529	12,265	2,272	3,618	10,889	17,403	20,966	1,540
	1.00-1.19.....	21	3,941	20,938	3,591	5,794	18,236	31,227	39,144	2,725
	1.20-1.39.....	19	5,970	33,600	5,336	9,061	28,946	61,497	77,329	2,975
	1.40-1.59.....	22	6,013	33,522	5,600	9,309	30,244	61,877	76,821	4,494

See footnotes at end of table.



Table 8B.—General Statistics for Establishments in the Bituminous Coal Industry Classified by Output Per Man-Hour, by Selected Types of Operation, for Selected States: 1958—Continued

Ind. code	State, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1211	West Virginia—Continued									
	Producing establishments—Continued									
	Mining operations with preparation plants—Continued									
	With mechanical cleaning—Continued									
	Underground—Continued									
	1.60-1.79.....	17	4,244	22,803	3,864	6,280	19,803	48,009	60,654	1,804
	1.80-1.99.....	13	3,940	22,294	3,558	6,042	19,518	44,366	62,424	4,156
	2.00-2.39.....	15	2,673	14,832	2,325	3,929	12,376	30,447	42,740	4,353
	2.40-2.99.....	10	1,677	8,910	1,473	2,445	7,583	22,321	32,536	1,637
	3.00 and over.....	8	791	4,512	663	1,176	3,704	12,159	29,210	383
	Undistributed <sup>2</sup> .....	6	2,029	11,573	404	817	2,548	6,433	2,074	10,580
	With mechanical crushing, screening, and sizing only:									
	Strip-pit, total.....	28	447	1,997	406	670	1,760	4,125	6,182	497
	Less than 1.60.....	6	81	338	79	126	331	590	684	40
	1.60-2.39.....	3	84	233	76	86	214	557	709	100
	2.80 and over.....	3	78	403	69	112	336	1,368	2,028	84
	Undistributed <sup>2</sup> .....	16	204	1,023	182	346	879	1,610	2,761	273
	Underground, total.....	107	4,001	17,722	3,664	6,218	15,902	25,992	36,337	2,488
	Less than 0.40.....	6	206	870	197	340	781	433	723	94
	0.40-0.59.....	12	368	1,143	322	586	960	1,706	1,538	1,242
	0.60-0.79.....	13	498	1,656	464	698	1,539	1,960	2,398	29
	0.80-0.99.....	15	971	5,273	918	1,754	4,938	7,521	9,542	71
	1.00-1.19.....	8	257	828	243	362	767	1,111	1,903	94
	1.20-1.39.....	11	489	2,347	428	697	2,078	2,943	4,383	233
	1.40-1.59.....	6	118	499	96	167	364	802	967	30
	1.60-1.99.....	6	376	1,792	335	598	1,526	3,335	4,643	62
	2.00-2.99.....	11	419	2,139	383	554	1,850	4,059	6,053	357
	3.00-3.99.....	3	83	500	77	144	447	920	1,930	124
	4.00 and over.....	4	26	116	21	13	109	206	938	...
	Undistributed <sup>2</sup> .....	12	190	559	180	305	543	996	1,319	152
	Preparation plants only:									
	Mechanical cleaning, total.....	15	495	2,652	422	677	2,086	7,988	52,788	1,587
	5.00-9.99.....	5	71	313	61	90	266	340	3,695	22
	10.00 and over.....	5	127	707	111	192	569	2,666	15,065	186
	Undistributed <sup>2</sup> .....	5	297	1,632	250	395	1,251	4,982	34,028	1,379
	Mechanical crushing, screening, or sizing only, total.....	66	456	1,853	373	654	1,555	3,966	24,548	387
	Less than 4.00.....	7	77	241	53	126	299	239	1,289	12
	4.00-5.99.....	4	13	52	11	18	34	97	462	...
	7.00-11.99.....	6	85	421	77	159	354	634	5,618	...
	12.00-14.99.....	11	90	338	74	120	265	1,326	6,890	93
	15.00-19.99.....	5	39	155	34	40	134	410	3,499	17
	20.00 and over.....	5	34	146	26	34	110	840	4,399	...
	Undistributed <sup>3</sup> .....	28	118	500	98	157	359	420	2,391	265
	Kentucky.....	1,306	28,397	121,721	25,329	39,842	106,066	227,458	362,887	18,887
	Producing establishments:									
	Mining operations only:									
	Strip-pit, total.....	63	444	2,064	407	712	1,866	5,228	8,104	241
	Less than 1.60.....	4	28	131	27	39	128	132	267	19
	1.60-1.99.....	3	24	74	24	35	74	145	212	40
	2.00-2.39.....	4	16	80	16	48	80	206	260	...
	2.40-2.79.....	5	37	128	36	59	126	371	520	3
	2.80-3.19.....	5	55	243	50	94	226	928	1,132	15
	3.20-3.99.....	5	45	121	43	43	114	330	453	62
	4.00 and over.....	5	53	375	45	86	292	1,257	1,471	18
	Undistributed <sup>2</sup> .....	32	186	912	166	308	826	1,859	3,789	84
	Underground, total.....	936	9,241	28,991	8,330	11,983	25,855	48,304	67,610	3,621
	Less than 0.40.....	35	154	391	142	300	369	315	334	75
	0.40-0.59.....	38	476	939	447	752	882	1,311	1,456	198
	0.60-0.79.....	65	1,015	2,254	972	1,471	2,158	3,347	4,107	302
	0.80-0.99.....	54	814	2,278	783	1,198	2,214	3,274	4,210	205
	1.00-1.19.....	73	1,399	5,328	1,249	1,935	4,513	6,725	9,293	596
	1.20-1.39.....	48	476	1,476	448	668	1,396	2,412	3,193	163
	1.40-1.59.....	44	1,066	4,793	992	1,489	4,388	8,744	10,493	203
	1.60-1.79.....	32	362	1,170	320	442	1,025	2,469	2,917	208
	1.80-1.99.....	23	153	287	130	120	250	627	773	96
	2.00-2.39.....	51	395	949	330	348	893	1,879	2,785	135
	2.40-2.99.....	32	579	2,671	498	728	2,153	4,743	7,067	232
	3.00 and over.....	65	546	1,494	465	513	1,514	3,936	7,072	252
	Undistributed <sup>2</sup> .....	376	1,806	4,961	1,554	2,019	4,100	8,522	13,910	956

See footnotes at end of table.

Table 8B.—General Statistics for Establishments in the Bituminous Coal Industry Classified by Output Per Man-Hour, by Selected Types of Operation, for Selected States: 1958—Continued

Ind. code	State, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1211	Kentucky—Continued									
	Producing establishments—Continued									
	Mining operations with preparation plants:									
	Mechanical cleaning:									
	Strip-pit, total.....	14	1,113	8,066	1,028	2,088	7,320	28,994	37,099	3,960
	Less than 5.00.....	3	181	1,404	167	376	1,236	4,246	5,363	548
	5.00 and over.....	7	726	5,225	663	1,267	4,702	21,431	26,134	3,269
	Undistributed <sup>2</sup> .....	4	206	1,437	198	445	1,382	3,317	5,602	143
	Underground, total.....	62	10,130	50,055	8,973	14,653	43,242	83,568	113,519	5,357
	Less than 1.00.....	5	437	1,640	344	493	1,421	1,985	2,571	51
	1.00-1.19.....	7	1,094	5,789	1,012	1,772	5,392	8,655	10,732	799
	1.20-1.39.....	10	1,851	9,508	1,597	2,817	8,105	15,750	20,755	1,496
	1.40-1.59.....	4	1,102	5,675	1,015	1,668	5,213	8,391	12,286	242
	1.60-1.79.....	4	1,121	6,450	957	1,654	5,107	12,312	15,848	584
	1.80-1.99.....	11	2,846	13,022	2,601	3,893	11,344	22,736	29,217	925
	2.00-2.39.....	6	415	2,138	344	522	1,713	4,380	5,409	342
	2.40-2.99.....	4	469	2,994	452	790	2,821	5,547	7,884	648
	3.00-3.99.....	3	65	128	39	55	60	151	631	21
	5.00 and over.....	3	69	266	57	91	208	359	2,879	32
	Undistributed <sup>2</sup> .....	5	661	2,445	555	898	1,858	3,302	5,307	217
	With mechanical crushing, screening, or sizing only:									
	Strip-pit, total.....	14	224	1,066	180	337	945	4,094	5,140	697
	Less than 4.00.....	3	89	264	57	111	250	696	1,296	208
	4.00 and over.....	3	74	541	68	146	469	2,722	2,893	462
	Undistributed <sup>2</sup> .....	8	61	261	55	80	226	676	951	27
	Underground, total.....	91	3,882	15,159	3,512	5,246	13,133	23,302	34,749	1,169
	Less than 0.40.....	4	54	144	54	117	144	121	175	119
	0.40-0.59.....	6	130	359	126	223	350	554	674	...
	0.60-0.79.....	12	291	862	275	444	772	1,082	1,357	38
	0.80-0.99.....	9	1,187	5,356	1,070	1,751	4,550	8,161	9,941	398
	1.00-1.19.....	6	268	1,294	257	408	1,167	1,981	2,468	1
	1.20-1.39.....	5	233	767	209	268	725	1,107	1,321	66
	1.40-1.59.....	3	490	1,619	438	550	1,365	2,681	3,462	191
	1.60-1.79.....	4	83	262	66	88	205	375	507	9
	1.80-2.39.....	9	711	3,359	617	1,006	2,826	4,394	8,024	67
	3.00-3.99.....	7	168	449	154	142	416	1,053	2,587	...
	4.00 and over.....	7	118	371	116	113	319	1,015	3,087	197
	Undistributed <sup>2</sup> .....	19	149	317	130	136	294	778	1,146	83
	Preparation plants only:									
	Mechanical crushing, screening, or sizing only, total.....	39	274	967	243	337	803	2,226	14,826	152
	Less than 4.00.....	5	54	87	51	38	79	100	578	30
	4.00-5.99.....	5	28	127	25	47	118	171	1,054	1
	6.00-7.99.....	3	34	137	27	46	100	358	1,591	5
	8.00-11.99.....	5	59	184	51	78	157	552	3,712	54
	12.00 and over.....	9	60	270	51	78	208	726	5,725	...
	Undistributed <sup>2</sup> .....	12	39	162	38	50	141	319	2,166	62
	Tennessee.....	277	2,661	9,628	2,416	3,509	8,574	16,575	29,123	2,176
	Producing establishments:									
	Mining operations only:									
	Strip-pit, total.....	36	229	897	210	360	827	2,232	3,413	223
	Less than 2.00.....	4	30	97	28	39	94	166	232	10
	2.00-2.39.....	8	50	186	47	82	173	446	632	25
	2.40-3.59.....	3	16	65	15	23	60	224	334	...
	3.60 and over.....	3	12	36	11	11	33	116	205	7
	Undistributed <sup>2</sup> .....	18	121	513	109	205	467	1,280	2,010	181
	Underground, total.....	181	1,247	3,662	1,132	1,442	3,381	5,129	7,617	494
	Less than 0.40.....	13	66	120	63	107	114	112	112	31
	0.40-0.59.....	8	110	286	103	187	277	409	442	11
	0.60-0.79.....	11	142	304	131	168	286	437	527	21
	0.80-0.99.....	8	66	103	56	63	91	190	206	12
	1.00-1.19.....	15	89	191	86	89	188	296	368	34
	1.20-1.59.....	12	240	1,304	225	357	1,234	1,320	2,108	153
	1.60-1.79.....	13	98	246	87	96	233	437	652	78
	1.80-1.99.....	4	51	81	48	37	77	259	260	27
	2.00-2.39.....	10	46	118	42	41	113	171	308	23
	2.40-2.99.....	4	17	41	14	14	33	24	119	2
	3.00 and over.....	16	74	154	66	42	138	397	594	25
	Undistributed <sup>2</sup> .....	67	248	714	211	241	597	1,077	1,921	77
	Mining operations with preparation plants:									
	With mechanical crushing, screening, or sizing only:									
	Strip-pit, total.....	14	157	632	138	232	575	1,736	2,571	269

See footnotes at end of table.



Table 8B.—General Statistics for Establishments in the Bituminous Coal Industry Classified by Output Per Man-Hour, by Selected Types of Operation, for Selected States: 1958—Continued

Ind. code	State, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1211	Tennessee—Continued									
	Producing establishments—Continued									
	Mining operations with preparation plants—Continued									
	With mechanical crushing, screening, or sizing only—Continued									
	Strip-pit—Continued									
	2.00-2.79.....	4	55	238	51	90	222	588	800	51
	4.00-4.99.....	3	23	108	19	37	86	310	597	12
	Undistributed <sup>2</sup> .....	7	79	286	68	105	267	838	1,174	206
	Underground, total.....	25	835	3,759	763	1,222	3,210	5,424	10,091	494
	Less than 1.00.....	3	123	386	122	218	375	576	637	86
	1.00-1.19.....	4	339	1,710	323	484	1,438	2,415	5,197	331
	1.20-3.99.....	4	242	1,302	225	418	1,183	2,246	3,190	36
	Undistributed <sup>2</sup> .....	14	131	361	93	102	214	187	1,067	41
	Alabama.....	147	7,453	35,411	6,622	10,273	28,821	58,799	85,186	3,990
	Mining operations only (Producing establishments only):									
	Strip-pit, total.....	18	210	959	189	290	871	1,928	3,518	131
	Less than 2.00.....	3	13	44	12	15	43	68	82	1
	2.00-2.99.....	3	59	339	55	89	327	635	1,067	95
	3.00-5.99.....	3	43	167	41	53	166	746	880	14
	Undistributed <sup>2</sup> .....	9	95	409	81	133	335	479	1,489	21
	Underground, total.....	63	509	1,411	450	586	1,241	2,058	3,003	141
	Less than 0.20.....	14	110	322	95	127	261	490	870	24
	0.20-0.59.....	6	31	70	29	52	66	94	129	12
	0.60-0.79.....	7	68	147	63	75	140	211	225	3
	0.80-0.99.....	7	157	555	144	209	511	784	1,026	37
	1.00-1.19.....	5	36	104	36	61	104	117	259	20
	1.20-1.59.....	5	29	75	24	28	65	90	154	7
	1.60-1.99.....	3	24	62	21	20	54	107	147	7
	2.00 and over.....	4	16	23	14	6	20	32	45	4
	Undistributed <sup>2</sup> .....	12	38	53	24	8	20	133	148	27
	Mining operations with preparation plants: With mechanical cleaning:									
	Strip-pit, total.....	11	355	1,869	320	563	1,631	3,739	5,409	332
	Less than 1.79.....	4	211	1,204	192	398	1,081	1,889	2,609	254
	1.80 and over.....	3	90	442	84	126	400	1,395	1,712	36
	Undistributed <sup>2</sup> .....	4	54	223	44	39	150	455	1,088	42
	Underground, total.....	22	5,110	25,645	4,509	7,102	20,391	39,046	55,106	2,969
	Less than 0.60.....	4	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
	0.60-0.89.....	5	889	4,069	823	1,132	3,654	4,757	7,872	68
	0.90-1.19.....	6	2,208	10,626	1,935	2,811	8,113	15,851	21,941	742
	1.20-1.79.....	5	1,391	7,622	1,285	2,376	6,893	17,311	22,624	992
	Undistributed <sup>2</sup> .....	2	622	3,328	446	783	1,731	4,127	4,669	41,167
	With crushing, screening, or sizing only:									
	Underground, total.....	14	895	3,755	812	1,177	3,139	8,578	10,403	108
	Less than 0.60.....	3	65	162	59	106	146	170	195	1
	0.60-0.99.....	4	266	1,164	236	338	951	2,487	2,901	8
	1.00-1.39.....	4	540	2,361	494	705	1,976	5,828	7,136	84
	Undistributed <sup>2</sup> .....	3	24	68	23	28	66	93	171	15
	Colorado.....	105	2,016	9,628	1,800	2,807	8,359	16,348	19,698	1,348
	Mining operations only, total <sup>5</sup> .....	47	187	602	169	245	531	1,068	1,418	143
	Less than 0.80.....	6	54	215	47	97	185	292	399	6
	0.80-1.39.....	7	49	181	46	63	155	279	333	62
	1.60 and over.....	6	40	92	38	27	89	200	269	39
	Undistributed <sup>2</sup> .....	28	44	114	38	58	102	297	417	36
	Underground mines with mechanical crushing, screening, or sizing only, total <sup>6</sup> .....	49	1,674	8,285	1,493	2,385	7,161	13,722	16,255	1,035
	Less than 0.60.....	6	499	2,369	467	680	2,119	2,358	2,745	89
	0.60-0.99.....	4	175	891	175	279	848	1,725	2,032	170
	1.00-1.19.....	6	599	3,064	545	867	2,599	5,483	6,738	329
	1.20-1.39.....	4	140	645	101	179	517	1,070	1,186	88
	1.60-2.39.....	4	96	518	86	159	472	1,327	1,504	16
	Undistributed <sup>2</sup> .....	25	165	798	119	221	606	1,759	2,050	343
	Utah.....	35	2,824	15,507	2,467	4,025	12,933	25,376	49,739	4,892
	Underground mines only and underground mines with mechanical crushing, screening, or sizing only, total.....	29	1,419	8,461	1,223	2,063	6,516	16,614	21,540	1,870

See footnotes at end of table.

Table 8B.—General Statistics for Establishments in the Bituminous Coal Industry Classified by Output Per Man-Hour, by Selected Types of Operation, for Selected States: 1958—Continued

Ind. code	State, type of operation, and short tons per man-hour <sup>1</sup>	Establishments number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1211	Utah—Continued Underground mines only and underground mines with mechanical crushing, screening, or sizing only—Continued									
	0.60-0.99.....	3	49	312	37	100	251	330	834	18
	1.20-1.39.....	6	740	4,222	616	1,013	3,147	8,865	10,546	476
	1.60-2.39.....	4	205	1,219	190	339	1,143	2,436	3,148	87
	2.40 and over.....	4	95	562	85	134	379	1,006	1,524	307
	Undistributed <sup>2</sup> .....	12	330	2,146	295	477	1,596	3,977	5,488	982

<sup>1</sup>Represents tons of coal shipped per man-hour worked by production and development workers.

<sup>2</sup>Represents establishments reporting no coal shipments, or no production or development worker man-hours, or cost of contract work amounting to 30 percent or more of production and development worker wages, or number of working proprietors amounting to 30 percent or more of number of production and development workers, or man-hours spent on development and exploration work amounting to 30 percent or more of total man-hours worked by production and development workers. For number and payroll of "All employees," includes figures for separately reported central offices and related facilities.

<sup>3</sup>Includes data for 15 nonproducing establishments. See also footnote 2.

<sup>4</sup>Figures for class "Less than 0.60" are included with those for "Undistributed."

<sup>5</sup>Represents 46 underground mines and one strip-pit mine. Data for the strip-pit mine are included under "Undistributed."

<sup>6</sup>Includes data for 4 separately operated preparation plants engaged in mechanical crushing, screening, or sizing only. Data for these separately operated preparation plants are included under "Undistributed."



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining,  
by Divisions: 1958

Ind. code	Industry, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab- lishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi- tures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1211	BITUMINOUS COAL:									
	United States, total.....	6,715	<sup>2</sup> 185,676	<sup>2</sup> 902,759	161,711	264,308	751,584	1,585,541	2,390,677	183,967
	Less than 0.10.....	74	499	1,600	435	505	1,302	19,575	7,407	21,807
	0.10-0.19.....	217	1,579	6,671	1,364	2,162	5,570	42,609	76,434	10,914
	0.20-0.29.....	430	5,002	23,873	4,469	7,416	20,720	95,623	161,427	11,748
	0.30-0.39.....	684	14,472	73,598	12,938	21,751	64,906	207,960	301,897	20,776
	0.40-0.49.....	812	30,998	160,928	27,932	47,540	139,920	352,963	499,763	29,283
	0.50-0.59.....	967	36,619	179,458	32,826	53,876	156,002	327,086	455,781	30,396
	0.60-0.69.....	794	36,320	175,596	32,686	54,547	151,518	273,417	379,030	20,149
	0.70-0.79.....	549	21,007	98,479	19,165	30,999	87,824	133,049	199,805	13,534
	0.80-0.89.....	395	11,044	47,078	9,969	15,294	41,886	55,883	97,808	3,736
	0.90-0.99.....	189	7,778	34,392	7,029	10,672	30,009	36,550	58,638	2,681
	1.00 and over.....	960	13,432	57,331	11,853	18,114	48,811	40,238	131,933	13,978
	Undistributed <sup>3</sup> .....	644	6,926	43,755	1,045	1,432	3,116	588	20,754	4,965
	Middle Atlantic, total.....	1,312	36,873	183,486	31,747	51,153	148,109	286,384	450,022	31,881
	Less than 0.10.....	18	43	95	40	51	92	1,552	1,421	549
	0.10-0.19.....	41	213	821	172	298	625	5,143	17,822	1,694
	0.20-0.29.....	99	700	2,465	633	1,054	2,155	9,936	15,203	2,448
	0.30-0.39.....	131	2,268	10,642	2,055	3,486	9,502	28,447	42,072	2,390
	0.40-0.49.....	124	3,525	18,470	3,238	5,618	15,824	40,742	79,585	4,272
	0.50-0.59.....	171	5,080	25,159	4,549	7,683	22,029	46,447	63,034	3,608
	0.60-0.69.....	146	9,552	49,858	8,520	13,767	41,788	77,407	99,953	4,304
	0.70-0.79.....	109	5,907	28,589	5,281	8,332	24,630	39,026	53,611	3,231
	0.80-0.89.....	81	3,400	15,635	3,044	4,532	13,371	18,390	34,131	1,517
	0.90-0.99.....	46	2,174	10,227	1,934	2,855	8,496	10,982	15,155	686
	1.00 and over.....	182	2,395	10,259	2,068	3,132	8,736	6,559	16,997	6,838
	Undistributed <sup>3</sup> .....	164	1,616	11,266	213	345	861	1,753	11,038	824
	East North Central, total.....	612	25,201	142,949	21,563	38,142	116,442	283,283	413,049	29,419
	Less than 0.10.....	5	333	1,682	293	473	1,503	11,272	12,848	1,557
	0.10-0.19.....	27	1,573	9,080	1,409	2,468	7,788	35,938	46,589	2,553
	0.20-0.29.....	47	2,746	17,693	2,432	4,709	15,648	52,478	71,389	5,553
	0.30-0.39.....	82	7,255	41,521	6,547	11,811	36,487	91,827	123,682	7,324
	0.40-0.49.....	75	3,565	20,686	3,189	5,769	18,129	37,320	51,667	3,394
	0.50-0.59.....	75	3,960	20,269	3,558	6,210	17,725	31,905	46,383	2,766
	0.60-0.69.....	44	2,060	10,441	1,905	3,075	9,471	13,974	19,940	1,627
	0.70-0.79.....	30	644	2,447	598	878	2,276	2,888	4,440	202
	0.80-0.89.....	25	827	3,875	766	1,373	3,494	4,179	7,345	248
	0.90-0.99.....	56	931	4,442	822	1,300	3,792	2,322	27,881	321
	Undistributed <sup>3</sup> .....	56	1,307	10,812	44	76	129	(4)	885	3,874
	West North Central, total.....	130	1,877	9,700	1,182	2,174	5,607	16,022	20,072	4,224
	0.10-0.19.....	11	39	107	38	63	105	788	664	283
	0.20-0.29.....	13	152	804	121	275	658	3,519	3,261	1,588
	0.30-0.39.....	10	270	1,621	207	356	1,375	4,629	5,583	1,791
	0.40-0.49.....	13	282	1,523	260	534	1,374	3,497	4,731	201
	0.50-0.59.....	9	146	786	134	202	683	1,448	1,905	156
	0.60-0.69.....	13	148	590	138	229	517	884	1,854	56
	0.70-0.79.....	12	126	476	116	223	417	625	1,102	70
	0.80-0.89.....	4	94	235	88	144	218	268	313	6
	0.90-0.99.....	2	84	263	73	131	236	222	434	23
	1.00 and over.....	15	536	3,295	7	17	24	142	225	50
	Undistributed <sup>3</sup> .....	28	536	3,295	7	17	24	142	225	50
	South Atlantic, total.....	2,655	75,925	362,347	66,687	109,209	307,820	636,742	936,350	84,564
	Less than 0.10.....	28	359	1,360	310	386	1,089	15,664	4,127	20,310
	0.10-0.19.....	75	568	2,066	473	639	1,571	13,405	27,066	5,759
	0.20-0.29.....	140	1,205	4,892	1,063	1,558	4,090	18,527	59,368	3,182
	0.30-0.39.....	242	5,298	25,999	4,762	7,705	22,695	72,188	107,371	6,404
	0.40-0.49.....	340	13,580	69,477	12,284	20,378	60,867	151,294	208,163	12,659
	0.50-0.59.....	426	17,825	88,216	15,944	26,123	77,005	161,148	217,724	17,731
	0.60-0.69.....	334	13,157	63,309	11,798	20,870	54,807	98,527	139,799	8,438
	0.70-0.79.....	230	9,263	44,377	8,573	14,172	40,161	59,726	80,930	4,348
	0.80-0.89.....	173	4,051	16,928	3,681	5,763	15,371	20,255	33,958	1,166
	0.90-0.99.....	70	2,752	11,783	2,510	3,620	10,385	12,485	18,501	714
	1.00 and over.....	407	5,360	21,090	4,838	7,380	18,489	14,347	34,741	3,433
	Undistributed <sup>3</sup> .....	190	2,507	12,852	451	615	1,290	(4)	4,602	420

See footnotes at end of table.

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Divisions: 1958—Continued

Ind. code	Industry, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab-lishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
	<b>BITUMINOUS COAL—Continued</b>									
	East South Central, total.....	1,730	38,511	166,760	34,367	53,624	143,461	302,832	477,196	25,053
	Less than 0.10.....	17	60	103	48	54	80	1,727	1,406	591
	0.10-0.19.....	56	413	1,930	377	664	1,709	11,698	17,722	1,567
	0.20-0.29.....	109	1,268	6,206	1,143	1,916	5,616	26,102	34,577	1,892
	0.30-0.39.....	189	3,305	14,748	2,989	4,658	13,238	41,725	63,947	4,212
	0.40-0.49.....	213	5,234	23,759	4,632	7,580	20,395	51,694	67,271	3,968
	0.50-0.59.....	261	8,585	36,892	7,773	12,071	31,845	66,627	103,671	2,696
	0.60-0.69.....	189	8,749	37,539	7,974	12,284	33,076	58,560	81,546	3,785
	0.70-0.79.....	129	3,110	11,793	2,799	4,324	10,696	15,967	26,948	1,783
	0.80-0.89.....	89	2,181	8,815	1,936	3,004	7,838	10,490	20,567	698
	0.90-0.99.....	39	1,136	4,691	1,016	1,605	3,899	4,986	9,143	496
	1.00 and over.....	273	3,898	17,557	3,371	5,128	14,341	13,290	47,082	3,127
	Undistributed <sup>3</sup> .....	166	572	2,727	309	336	728	(4)	3,316	238
	West South Central, total.....	60	1,059	5,524	974	1,797	5,002	10,618	14,413	827
	Less than 0.10.....	1	67	264	66	89	264	1,148	1,612	341
	0.20-0.29.....	6	242	1,376	216	396	1,217	4,193	6,018	134
	0.30-0.39.....	8	5109	529	598	571	5458	51,072	51,448	540
	0.40-0.49.....	3	68	356	53	127	256	662	847	162
	0.50-0.59.....	4	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
	0.60-0.69.....	6	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
	0.70-0.79.....	5	6151	6875	6137	6274	6996	61,270	696	696
	0.80-0.89.....	4	409	2,070	392	715	1,970	2,440	2,962	29
	0.90-0.99.....	2	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	1.00 and over.....	5	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
	Undistributed <sup>3</sup> .....	16	13	54	12	25	43	107	256	25
	Mountain, total.....	203	5,666	28,429	4,946	7,818	23,941	48,051	77,040	7,910
	Less than 0.10.....	5	10	13	10	4	12	171	231	17
	0.10-0.19.....	6	22	77	20	29	70	491	506	81
	0.20-0.29.....	14	52	168	49	57	155	685	781	44
	0.30-0.39.....	22	343	1,519	277	441	1,231	4,300	5,517	292
	0.40-0.49.....	28	1,049	5,848	903	1,509	4,681	13,151	15,405	853
	0.50-0.59.....	21	1,350	7,363	1,184	1,901	6,055	13,434	16,933	2,649
	0.60-0.69.....	28	669	3,618	621	1,052	3,231	5,498	8,582	762
	0.70-0.79.....	18	377	1,852	338	566	1,552	2,445	15,260	2,444
	0.80-0.89.....	14	298	1,074	261	323	966	1,283	1,630	120
	0.90-0.99.....	5	856	3,690	772	1,154	3,611	3,789	8,301	535
	1.00 and over.....	18	553	2,662	502	764	2,336	2,542	3,462	79
	Undistributed <sup>3</sup> .....	24	87	545	9	18	41	262	432	34
	Pacific, total.....	13	276	1,360	245	391	1,202	1,609	2,535	89
	0.10-0.19.....	1	3	10	3	5	10	41	64	13
	0.20-0.29.....	2	49	216	47	74	208	322	391	4
	0.40-0.49.....	1	224	1,134	195	312	984	1,246	2,080	72
	0.60-0.69.....	3								
	0.70-0.79.....	2								
	1.00 and over.....	4								
1212	<b>LIGNITE:</b>									
	United States, total.....	58	510	2,693	437	844	2,261	9,309	11,035	1,432
	Less than 0.10.....	2	41	138	35	50	113	800	821	158
	0.10-0.19.....	7								
	0.20-0.29.....	7	310	1,835	262	516	1,527	7,111	8,291	1,029
	0.30-0.39.....	6	66	328	58	107	280	729	911	31
	0.40-0.49.....	3	54	235	47	107	202	434	660	209
	0.50-0.59.....	6	13	49	13	26	49	76	106	2
	0.60-0.69.....	4								
	0.80-0.89.....	1	25	101	21	37	87	91	138	...
	0.90-0.99.....	1								
	1.00 and over.....	5								
	Undistributed <sup>2</sup> .....	16	1	7	1	1	3	68	108	3
1213	<b>COAL STRIPPING SERVICES, NEC:</b>									
	United States, total.....	137	1,300	6,373	1,180	2,106	5,615	13,409	19,162	2,600
	Less than 0.10.....	1	44	149	42	80	144	959	1,157	174
	0.10-0.19.....	9	68	301	66	157	265	1,208	1,355	164
	0.20-0.29.....	10	182	933	173	362	880	2,756	3,379	609
	0.30-0.39.....	17	192	1,001	178	306	885	2,173	2,775	283
	0.40-0.49.....	19	337	1,496	297	468	1,300	2,815	4,204	529
	0.50-0.59.....	25	171	908	150	250	715	1,385	1,960	195
	0.60-0.69.....	13	41	222	38	64	210	293	630	24
	0.70-0.79.....	3	40	254	34	79	203	307	741	436
	0.80-0.89.....	5	69	326	55	115	269	356	742	52
	0.90-0.99.....	3	121	641	113	177	607	490	1,103	34
	1.00 and over.....	7	35	142	34	48	137	667	1,116	100
	Undistributed <sup>3</sup> .....	25								

See footnotes at end of table.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining,  
by Divisions: 1958—Continued

Ind. code	Industry, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab- lishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi- tures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1214	COAL MINING SERVICES, NEC:									
	United States, total.....	20	220	959	205	441	904	1,705	2,487	196
	0.10-0.19.....	1								
	0.30-0.39.....	3	22	84	22	54	84	275	353	51
	0.40-0.49.....	3								
	0.50-0.59.....	1	44	196	42	118	195	396	521	107
	0.60-0.69.....	4								
	0.70-0.79.....	1	147	676	136	267	623	978	1,452	36
	Undistributed <sup>3</sup> .....	7	7	3	5	2	2	56	161	2

<sup>1</sup>Note that in computing these ratios contract or subcontract employment serving the establishment is excluded. The cost of contract work or subcontract work expressed as a percent of payroll for 1958 was: For Bituminous Coal, 8 percent; for Lignite, 1 percent; for Coal Stripping Services, NEC, 13 percent; and for Coal Mining Services, NEC, 6 percent. <sup>2</sup>Revised.

<sup>2</sup>Includes figures for central offices and related facilities in Massachusetts.

<sup>3</sup>Represents establishments with zero or negative value added; establishments with no employees; and for number of employees and payroll includes figures for separately reported central offices and related facilities.

<sup>4</sup>Not shown since cost of supplies, purchased fuels and electricity, contract work, and purchased machinery exceeds capital expenditures.

<sup>5</sup>Figures for class 0.60-0.69 are included with those for class 0.40-0.49.

<sup>6</sup>Figures for class 1.00 and over are included with those for class 0.70-0.79.

Table 10.-Value Added in Mining Per Employee by Size of Establishment for the United States: 1958

Ind. code	Industry and value added per employee class <sup>1</sup>	Number of--		Number of establishments with average employment of--								
		Estab-lish-ments	Em-ployees	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1211	BITUMINOUS COAL, TOTAL.....	6,715	185,676	2,899	1,338	1,136	679	251	244	121	46	1
	Less than \$3,000.....	1,504	14,253	745	357	267	98	29	6	2	...	...
	\$3,000-\$3,999.....	739	10,444	270	177	171	93	22	2	2	...	...
	\$4,000-\$4,999.....	734	13,679	281	169	156	84	18	16	9	1	...
	\$5,000-\$5,999.....	549	13,196	194	127	108	70	24	18	5	3	...
	\$6,000-\$6,999.....	511	15,087	187	108	91	54	37	20	11	3	...
	\$7,000-\$7,999.....	395	17,951	128	81	72	48	15	34	10	7	...
	\$8,000-\$8,999.....	311	18,890	92	60	52	38	19	28	16	5	1
	\$9,000-\$9,999.....	26	17,912	92	41	31	31	18	32	13	8	...
	\$10,000-\$12,499.....	446	29,024	157	67	58	55	27	40	35	7	...
	\$12,500-\$14,999.....	242	14,743	74	43	36	43	9	17	13	7	...
	\$15,000-\$17,499.....	157	5,636	62	24	23	20	12	12	2	2	...
	\$17,500-\$19,999.....	88	1,979	36	16	17	13	4	...	1	1	...
	\$20,000 and over.....	232	6,010	99	31	38	28	16	19	1	...	...
	Undistributed <sup>2</sup> .....	541	6,872	482	37	16	4	1	...	1	...	...
1212	LIGNITE, TOTAL.....	58	510	40	7	3	7	...	1	...	...	...
	Less than \$3,000.....	2	...	2	...	...	...	...	...	...	...	...
	\$3,000-\$3,999.....	3	26	2	1	...	...	...	...	...	...	...
	\$4,000-\$4,999.....	2	...	...	2	...	...	...	...	...	...	...
	\$5,000-\$5,999.....	4	13	3	1	...	...	...	...	...	...	...
	\$6,000-\$6,999.....	2	...	1	...	1	...	...	...	...	...	...
	\$7,000-\$7,999.....	2	16	2	...	...	...	...	...	...	...	...
	\$8,000-\$8,999.....	4	...	2	1	...	1	...	...	...	...	...
	\$9,000-\$9,999.....	1	38	1	...	...	...	...	...	...	...	...
	\$10,000-\$12,499.....	10	133	5	1	2	2	...	...	...	...	...
	\$12,500-\$14,999.....	4	43	...	1	...	1	...	...	...	...	...
	\$15,000-\$17,499.....	2	...	1	...	...	1	...	...	...	...	...
	\$17,500-\$19,999.....	1	49	...	...	...	...	...	...	...	...	...
	\$20,000 and over.....	5	191	2	...	...	2	...	1	...	...	...
	Undistributed <sup>2</sup> .....	16	1	16	...	...	...	...	...	...	...	...
1213	COAL STRIPPING SERVICES, NEC, TOTAL.....	137	1,300	59	30	29	18	1	...	...	...	...
	Less than \$3,000.....	4	...	1	2	...	1	...	...	...	...	...
	\$3,000-\$3,999.....	1	82	...	...	...	1	...	...	...	...	...
	\$4,000-\$4,999.....	6	87	2	1	1	2	...	...	...	...	...
	\$5,000-\$5,999.....	9	72	2	4	3	...	...	...	...	...	...
	\$6,000-\$6,999.....	12	164	5	1	2	4	...	...	...	...	...
	\$7,000-\$7,999.....	13	152	4	5	2	2	...	...	...	...	...
	\$8,000-\$8,999.....	9	69	2	4	3	...	...	...	...	...	...
	\$9,000-\$9,999.....	12	113	6	1	4	1	...	...	...	...	...
	\$10,000-\$12,499.....	18	221	5	5	5	2	1	...	...	...	...
	\$12,500-\$14,999.....	9	121	3	2	2	2	...	...	...	...	...
	\$15,000-\$17,499.....	4	70	1	...	1	2	...	...	...	...	...
	\$17,500-\$19,999.....	4	37	...	2	2	...	...	...	...	...	...
	\$20,000 and over.....	11	77	5	3	2	1	...	...	...	...	...
	Undistributed <sup>2</sup> .....	25	35	23	...	2	...	...	...	...	...	...
1214	COAL MINING SERVICES, NEC, TOTAL..	20	220	12	4	2	1	...	1	...	...	...
	Less than \$3,000.....	2	...	2	...	...	...	...	...	...	...	...
	\$3,000-\$3,999.....	1	75	...	...	1	...	...	...	...	...	...
	\$6,000-\$6,999.....	2	...	...	1	...	1	...	...	...	...	...
	\$7,000-\$7,999.....	2	...	1	...	...	...	...	1	...	...	...
	\$8,000-\$8,999.....	1	104	1	...	...	...	...	...	...	...	...
	\$10,000-\$12,499.....	3	12	2	1	...	...	...	...	...	...	...
	\$12,500-\$14,999.....	1	...	...	1	...	...	...	...	...	...	...
	\$15,000-\$17,499.....	2	23	1	...	1	...	...	...	...	...	...
	Undistributed <sup>2</sup> .....	6	6	5	1	...	...	...	...	...	...	...

<sup>1</sup>See table 9, footnote 1.<sup>2</sup>Represents establishments with no employees or with negative value added in mining and, for number of employees, figures for separately reported central offices and related facilities.



Table 11.—Hourly Earnings of Production and Development Workers for Establishments With 10 or More Employees by Divisions: 1958

Ind. code	Industry by hourly earnings classes	Number of--		Number of establishments with 10 or more employees in--								
		Estab-lish-ments	Employ-ees <sup>1</sup>	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun-tain	Pacific
1211	BITUMINOUS COAL, TOTAL.....	2,478	165,400	...	418	303	30	1,022	611	20	68	6
	Less than \$1.00.....	19	486	...	1	2	...	7	9	...	...	...
	\$1.00-\$1.49.....	282	5,955	...	16	22	5	132	103	2	2	...
	\$1.50-\$1.99.....	460	11,450	...	104	28	10	192	121	...	5	...
	\$2.00-\$2.49.....	439	10,722	...	85	62	3	184	89	5	10	1
	\$2.50-\$2.99.....	427	32,971	...	66	56	2	158	125	5	13	2
	\$3.00-\$3.49.....	612	87,952	...	118	74	4	270	106	7	31	2
	\$3.50-\$3.99.....	175	13,419	...	20	49	3	56	40	1	5	1
	\$4.00-\$4.49.....	29	1,287	...	3	8	1	10	6	...	1	...
	\$4.50 and over.....	25	937	...	5	1	2	8	8	...	1	...
	No production or development workers.....	10	221	...	...	1	...	5	4	...	...	...
1212	LIGNITE, TOTAL.....	11	416	...	...	...	8	...	...	2	1	...
	\$1.50-\$1.99.....	2	115	...	...	...	1	...	...	1	...	...
	\$2.00-\$2.49.....	2	...	...	...	...	2	...	...	...	...	...
	\$2.50-\$2.99.....	6	...	...	...	...	5	...	...	...	1	...
	\$3.50-\$3.99.....	1	301	...	...	...	...	...	...	1	...	...
1213	COAL STRIPPING SERVICES, NEC, TOTAL.....	48	987	...	19	2	...	18	7	1	1	...
	\$1.00-\$1.49.....	4	16	...	3	...	...	...	1	...	...	...
	\$1.50-\$1.99.....	9	172	...	5	1	...	2	1	...	...	...
	\$2.00-\$2.49.....	8	157	...	6	...	...	1	1	...	...	...
	\$2.50-\$2.99.....	5	137	...	1	...	...	2	1	1	...	...
	\$3.00-\$3.49.....	13	276	...	4	...	...	7	1	...	1	...
	\$3.50-\$3.99.....	6	166	...	...	...	...	5	1	...	...	...
	\$4.00-\$4.49.....	1	...	...	...	1	...	...	...	...	...	...
	\$4.50 and over.....	2	63	...	...	...	...	1	1	...	...	...
1214	COAL MINING SERVICES, NEC, TOTAL..	4	179	...	4	...	...	...	...	...	...	...
	\$1.50-\$1.99.....	1	179	...	1	...	...	...	...	...	...	...
	\$2.00-\$2.49.....	3	...	...	3	...	...	...	...	...	...	...

<sup>1</sup>Excludes figures for separately reported central offices and related facilities.

Table 12.--Distribution of Operating Companies by Employment Size and by Number of Establishments for the United States: 1958

Ind. code	Industry by establishment count	Number of--			Number of establishments with average employment of--								
		Operating companies	Establishments	Employees	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1211	BITUMINOUS COAL, TOTAL.....	6,102	6,715	185,676	2,899	1,338	1,136	679	251	244	121	46	1
	Multiunit companies, total.....	406	1,019	129,618	113	94	118	182	137	211	118	45	1
	1 establishment <sup>1</sup> .....	200	200	15,799	30	23	26	50	23	32	11	5	...
	2 establishments.....	108	216	19,097	29	31	36	49	22	23	21	5	...
	3 or 4 establishments.....	55	186	18,108	24	19	21	39	28	40	8	7	...
	5 or 6 establishments.....	22	118	11,272	16	16	20	18	11	26	8	3	...
	7 to 9 establishments.....	7	55	10,231	1	1	7	3	7	22	13	1	...
	10 to 14 establishments.....	6	65	9,147	7	1	6	8	15	15	11	2	...
	15 to 19 establishments.....	4	68	19,801	1	...	1	6	9	22	17	12	...
	20 or more establishments.....	4	111	26,163	5	3	1	9	22	31	29	10	1
	Single unit companies.....	5,696	5,696	56,058	2,786	1,244	1,018	497	114	33	3	1	...
1212	LIGNITE, TOTAL.....	53	58	510	40	7	3	7	...	1	...	...	...
	Multiunit companies, total.....	7	12	380	1	2	2	6	...	1	...	...	...
	1 establishment <sup>1</sup> .....	5	5	380	...	...	...	...	...	...	...	...	...
	3 or 4 establishments.....	2	7	...	...	1	2	4	...	...	...	...	...
	Single unit companies.....	46	46	130	39	5	1	1	...	...	...	...	...
1213	COAL STRIPPING SERVICES, NEC, TOTAL.....	137	137	1,300	59	30	29	18	1	...	...	...	...
	Multiunit companies (1 establishment <sup>1</sup> ).....	15	15	1,300	3	2	5	4	1	...	...	...	...
	Single unit companies.....	122	122	...	56	28	24	14	...	...	...	...	...
1214	COAL MINING SERVICES, NEC, TOTAL..	20	20	220	12	4	2	1	...	1	...	...	...
	Multiunit companies (1 establishment <sup>1</sup> ).....	1	1	220	...	...	...	1	...	...	...	...	...
	Single unit companies.....	19	19	...	12	4	2	...	...	1	...	...	...

<sup>1</sup>Represents companies having at least one establishment classified in other industries.



# Oil and Gas Extraction

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Major Group 13, Oil

and Gas Extraction. The separate industries included in this major group and the reports in which they appear are:

Report	Industries covered
MIC58 (1)-13B—Crude Petroleum and Natural Gas	1311—Crude petroleum and natural gas
MIC58 (1)-13C—Natural Gas Liquids	1321—Natural gas liquids
MIC58 (1)-13D—Oil and Gas Field Services	<div> 1381—Drilling oil and gas wells  1382—Oil and gas field exploration services  1389—Oil and gas field services, n.e.c. </div>

The Oil and Gas Extraction Industries represent establishments primarily engaged in: (1) producing crude petroleum and natural gas, (2) recovering oil and gas from oil sands and oil shale (no such activities were reported for 1958), and (3) producing natural gasoline and cycle condensate. Types of activities included are exploration, drilling, oil and gas well operation and maintenance, the operation of natural gasoline and cycle plants, and the mining and extraction of oil from oil sands and oil shale. This major group also includes such basic activities as emulsion breaking and desilting of crude petroleum to render the oil marketable. Pipe line transportation of petroleum, gasoline, and other petroleum products except gathering lines is classified in Major Group 46—Pipe Line Transportation, and of natural gas in Major Group 49—Electric, Gas, and Sanitary Services. Establishments primarily engaged in petroleum refining and in the production of lubricating oils and greases are classified in Major Group 29—Petroleum Refining and Related Industries.

An establishment operating oil or gas field properties, for Census purposes, is defined as all oil and gas field activities of an operating company in an entire State. Separate reports were required for each State in which a company operated oil or gas field properties. (Separate subindustry statistics were tabulated for establishments primarily engaged in producing crude petroleum and natural gas, respectively. These subindustry statistics are shown in table 3 and in the report, Crude Petroleum and Natural Gas. Separate reports were required for each natural gas liquids plant.

Companies engaged in oil and gas field services, in general, were permitted to file one report for all oil and gas field services performed in the United States and Alaska, a service establishment representing the activities covered in such a report. Service establishments were classified in the separate service industries and subindustries on the basis of the principal kind of work performed as measured by receipts for such services. (The report, Oil and Gas Field Services, contains separate subindustry statistics for establishments primarily engaged in performing 16 different types of work.)

Companies primarily performing oil and gas field services but also operating oil and gas properties were required to file separate reports for each State in which oil and gas properties were operated. Such reports were classified on the basis of whether receipts from production or service activities in the State were greater and,

for companies primarily engaged in performing services, by principal type of service performed.

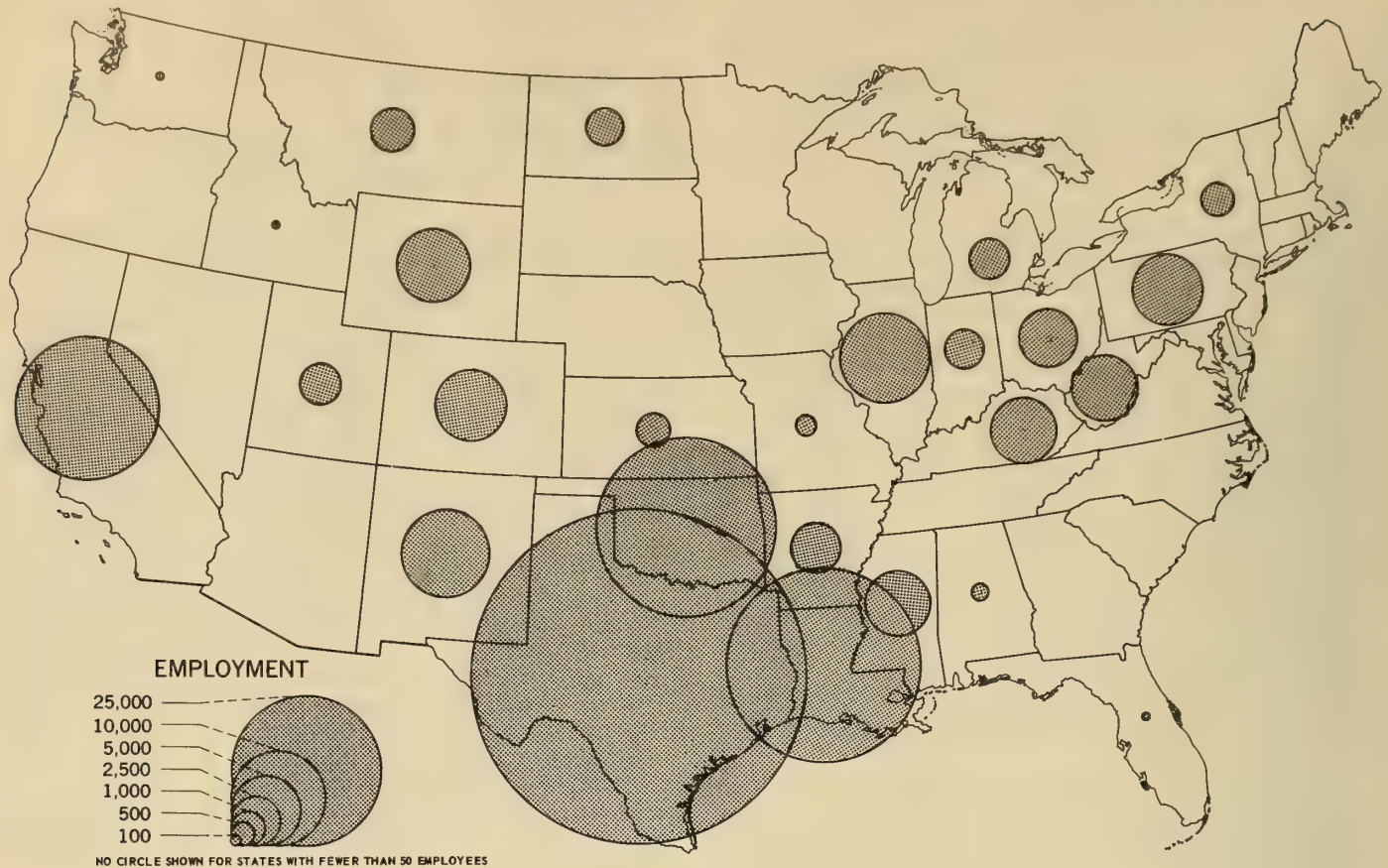
The combined value of shipments and receipts in 1958 of all industries in Major Group 13 was \$11,637 million. Establishments in the Crude Petroleum and Natural Gas Industry accounted for \$8,386 million, the Natural Gas Liquids Industry for \$1,625 million, and the Oil and Gas Field Services Industries for \$1,626 million. These figures represent the gross value of shipments and receipts. Figures for the Natural Gas Liquids Industry duplicate, in part, those for the Crude Petroleum and Natural Gas Industry due to the inclusion in shipments from the Natural Gas Liquids Industry of residue gas which was reported, prior to processing, as a shipment from the Crude Petroleum and Natural Gas Industry. Likewise, figures for the Natural Gas Liquids Industry contain some duplication due to the transfer of natural gas liquids from one establishment to another within the industry for further processing. Also, industries in the group contain some duplication due to the inclusion of products purchased and resold without further processing. When adjustments are made to eliminate these duplications, the value of net shipments is obtained, amounting, for the Oil and Gas Extraction Industries as a whole, to \$10,656 million and, for the Natural Gas Liquids Industry, to \$707 million.

This report presents in table 1 comparative general statistics for all Oil and Gas Extraction Industries combined for the census years 1860-1958. The first well was drilled for oil in the United States in 1859. Table 2A presents general statistics by 3-digit industry groups for the United States and for geographic divisions and States. Table 2B presents some cost, capital, and product details for the Oil and Gas Extraction Industries for selected geographic divisions and States. In table 3A, detailed statistics are shown for the United States by 4-digit industry. Table 3B shows number, footage, and cost of drilling and equipping wells drilled in the United States, by source of information. This table combines, at the United States level, detailed statistics on costs of drilling and equipping wells as reported by operators of oil and gas field properties (shown in table 6D of the Crude Petroleum and Natural Gas report) with similar detailed statistics as reported by service establishments (shown in table 6D of the Oil and Gas Field Services report). Table 4 shows selected statistics for establishments classified by employment size for all Oil and Gas Extraction Industries and 3-digit industry groups and includes the number of oil and gas extraction establishments by employment size and State.



## OIL AND GAS EXTRACTION

Distribution of Employment by State:1958



Employment and Production:1840-1958

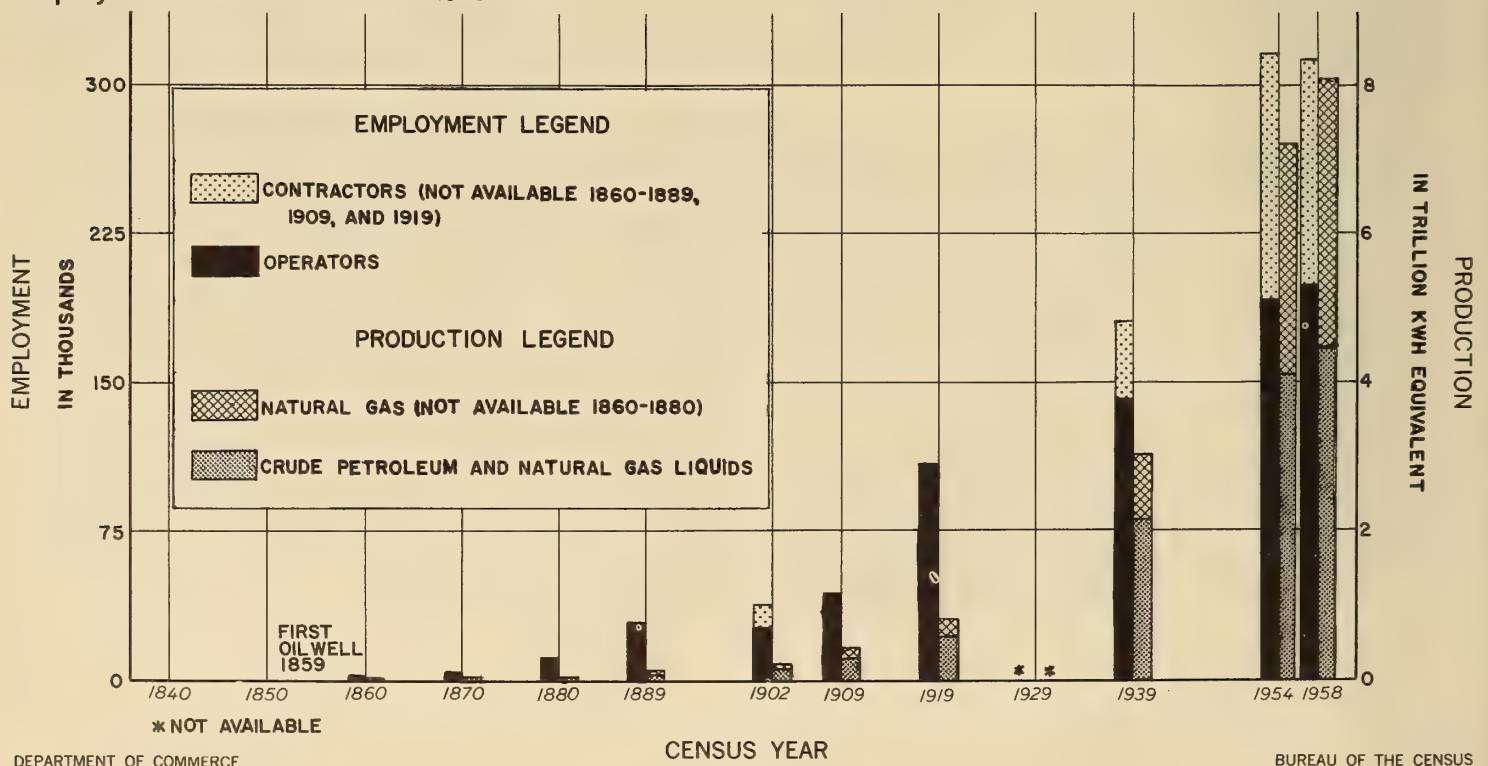




Table 1.—General Statistics for the Oil and Gas Extraction Industries in the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. 1)

Industry and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Selected expenses (\$1,000)					Value of net shipments and receipts <sup>1</sup>	Capital expenditures	Energy used (million kWh equivalent)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours	Wages (\$1,000)	Value added in mining (\$1,000)	Supplies, purchases for sale, and purchased fuels and electricity	Natural gas and natural liquids received for processing	Contract or sub-contract	Purchased machinery installed			
1958:																
Oil and gas extraction, total.....	15,363	18,501	2,689	312,800	1,699,420	213,935	440,102	1,010,679	9,035,289	1,585,385	992,386	1,559,330	654,232	11,636,887	2,189,735	310,313
Crude petroleum and natural gas.....	9,835	11,993	1,092	180,040	1,042,186	102,445	200,930	497,571	7,339,922	1,053,885	xxx	1,449,571	486,021	8,385,906	1,943,493	137,440
Natural gas liquids.....	176	953	290	16,514	96,319	13,445	26,947	75,739	587,580	55,243	992,386	44,983	39,836	1,625,098	94,930	142,130
Oil and gas field services.....	5,682	5,915	1,307	116,246	560,915	98,045	212,225	437,369	1,107,787	476,257	xxx	64,776	128,375	1,625,883	151,312	30,743
1954:																
Oil and gas extraction, total.....	15,099	17,585	2,766	315,735	1,462,443	235,483	491,718	976,595	27,673,694	1,300,176	2,172,921	1,557,859	863,205	29,341,539	2,226,316	285,096
Crude petroleum and natural gas.....	9,720	11,508	1,042	172,506	835,740	109,792	216,581	459,955	6,129,213	759,483	xxx	1,438,807	621,048	7,070,097	1,898,454	141,655
Natural gas liquids.....	181	562	287	17,340	85,057	13,560	27,862	63,983	2,425,937	49,045	2,172,921	36,726	65,752	2,640,422	109,959	113,449
Oil and gas field services.....	5,463	5,515	1,437	125,889	541,646	112,131	247,275	452,657	1,118,544	491,648	xxx	62,326	176,405	1,631,020	217,903	29,992
1939:																
Oil and gas extraction, total.....	9,348	10,909	(NA)	186,150	318,382	148,996	265,028	220,435	21,242,473	2,214,340	(NA)	2,203,018	(NA)	(NA)	(NA)	(NA)
Crude petroleum and natural gas.....	3,061	8,605	(NA)	136,051	234,899	105,505	190,674	155,700	1,071,989	104,931	xxx	199,034	(NA)	(NA)	(NA)	(NA)
Natural gas liquids.....	295	685	(NA)	10,337	18,264	8,332	16,634	13,212	2,170,484	15,608	(NA)	3,984	(NA)	(NA)	13,030	92,788
Oil and gas field services.....	1,619	1,619	(NA)	39,762	65,219	35,159	57,720	51,523	(NA)	(NA)	xxx	(NA)	(NA)	(NA)	(NA)	(NA)
Crude petroleum and natural gas liquids only:																
1919.....	(NA)	9,970	(NA)	111,611	169,276	93,659	(NA)	135,397	613,744	219,133	428,814	70,102	(NA)	931,793	(NA)	541,431
1909.....	8,053	8,202	(NA)	43,990	35,553	37,603	(NA)	28,094	111,858	46,528	9,889	17,143	(NA)	185,418	(NA)	(NA)
1902.....	31,736	(NA)	(NA)	27,558	21,319	22,438	(NA)	16,392	59,022	24,965	(NA)	18,278	(NA)	102,265	(NA)	(NA)
1889.....	(NA)	(NA)	(NA)	29,223	20,283	26,911	(NA)	8,748	15,318	22,690	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1880 <sup>8</sup> .....	(NA)	(NA)	(NA)	11,477	7,179	(NA)	(NA)	(NA)	17,697	9,174	(NA)	103,730	(NA)	(NA)	(NA)	(NA)
1870.....	(NA)	2,314	(NA)	4,488	3,995	(NA)	(NA)	(NA)	17,902	1,402	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1860 <sup>11</sup> .....	(NA)	64	(NA)	922	339	(NA)	(NA)	(NA)	2,088	2,167	(NA)	(NA)	(NA)	4,255	(NA)	(NA)

NA Not available.

<sup>1</sup>Represents gross shipments and receipts less the value of residue gas shipped from natural gas liquids plants and the cost of natural gas liquids received for processing at such plants and less resale of products purchased for resale without further processing.<sup>2</sup>For 1954 and 1959, no data were obtained on the value of gas received for processing at natural gas liquids plants or on the value of residue gas sold or transferred. However, for 1954 the estimated value (prior to processing) of natural gas liquids contained in such gas was included with the value of natural gas liquids received for processing and used in computing value added. No figures for the value of residue gas are included in the value of shipments and receipts shown for 1954. For 1939, the cost of supplies, purchases for resale and purchased fuels and electricity for all Oil and Gas Extraction Industries includes the estimated cost of such items and subcontract work to the Oil and Gas Field Services Industries, for which such data were not requested in 1939. These estimates are used in computing value added for such industries.<sup>3</sup>Data for 2 nonproducing natural gas liquids plants are included with data for the Crude Petroleum and Natural Gas Industry.<sup>4</sup>Represents natural gas purchased as a material or for resale.<sup>5</sup>Represents purchased electricity. For 1939, the quantity of purchased electricity amounted to less than one percent of the total kWh equivalent of energy used.<sup>6</sup>For 1902, data were also obtained from the operators of oil and gas field properties on the average number of employees at contract services operations performed for them. The total number of such employees was reported as 12,143.<sup>7</sup>Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.<sup>8</sup>Excludes natural gas operations. Although natural gas was used widely in 1880, it was still of relatively little commercial importance.<sup>9</sup>Represents the cost of drive-pipe, casing, tubing, and torpedoes.<sup>10</sup>Represents the "cost of drilling." It was indicated in the 1880 census report that drilling was usually done by contractors.<sup>11</sup>Reported as "oil, coal" and probably includes some refining as well as the production of crude petroleum, or may represent primarily the recovery of oil from coal.

Table 2A.—General Statistics for the Oil and Gas Extraction Industries by Industry Groups, Divisions, States, and Alaska: 1958 and 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	1958										1954		
		Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery	Value of shipments and receipts	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more em- ploy- ees	Number	Payroll  (\$1,000)	Number	Man- hours  (1,000)	Wages  (\$1,000)						
13	United States, total.....	18,501	2,689	312,800	1,699,420	213,935	440,102	1,010,679	9,035,289	4,791,333	11,636,887	2,189,735	1315,735	7,673,694
131	Crude petro- leum and natural gas	11,993	1,092	180,040	1,042,186	102,445	200,930	497,571	7,339,922	2,989,477	8,385,906	1,943,493	172,506	6,129,213
132	Natural gas liquids....	593	290	16,514	96,319	13,445	26,947	75,739	587,580	1,132,448	1,625,098	94,930	17,340	2,425,937
138	Oil and gas field ser- vices.....	5,915	1,307	116,246	560,915	98,045	212,225	437,369	1,107,787	669,408	1,625,883	151,312	125,889	1,118,544
13	Middle Atlantic.....	1,065	50	6,577	29,048	5,183	10,095	20,138	59,217	32,829	76,709	15,337	10,289	73,780
131	Crude petroleum and natural gas..	870	34	5,191	22,689	3,940	7,449	14,739	45,906	25,299	57,222	13,983	7,707	55,139
138	Oil and gas field services.....	188	16	1,369	6,290	1,226	2,613	5,332	13,104	5,891	17,787	1,208	2,545	18,469
13	New York, total...	235	7	1,094	6,033	699	1,331	2,575	7,447	3,182	8,758	1,871	2,506	9,011
131	Crude petroleum and natural gas	200	6	987	5,617	600	1,115	2,191	6,725	2,824	7,725	1,824	2,345	7,965
138	Oil and gas field services..	35	1	107	416	99	216	384	722	358	1,033	47	161	1,046
13	Pennsylvania.....	830	43	5,483	23,015	4,484	8,764	17,563	51,770	29,647	67,951	13,466	7,783	64,769
131	Crude petroleum and natural gas	670	28	4,204	17,072	3,340	6,334	12,548	39,181	22,475	49,497	12,159	5,362	47,174
138	Oil and gas field services..	153	15	1,262	5,874	1,127	2,397	4,948	12,382	5,533	16,754	1,161	2,384	17,423
13	East North Central..	1,932	156	16,320	74,173	12,541	22,854	49,914	305,524	186,281	445,215	46,590	17,992	261,969
131	Crude petroleum and natural gas..	1,388	98	11,318	54,896	8,043	14,569	32,985	256,394	94,850	308,553	42,691	12,380	207,760
13	Ohio.....	587	18	3,926	19,570	2,295	4,149	8,089	23,588	18,446	32,990	9,044	4,203	17,459
131	Crude petroleum and natural gas	444	12	3,018	16,205	1,454	2,530	5,047	17,649	13,899	22,954	8,594	3,349	12,528
13	Indiana, total....	352	14	1,649	6,960	1,210	2,004	4,069	28,794	12,433	36,175	5,052	1,724	23,315
131	Crude petroleum and natural gas	266	12	1,179	5,347	787	1,299	2,737	25,323	10,716	31,361	4,678	1,238	19,951
138	Oil and gas field services..	86	2	470	1,613	423	705	1,332	3,471	1,717	4,814	374	486	3,364
13	Illinois.....	799	104	9,017	38,878	7,610	13,665	30,878	229,372	141,853	342,134	29,091	9,961	190,222
131	Crude petroleum and natural gas	547	62	6,089	28,181	4,977	9,070	21,312	195,517	60,694	229,662	26,549	6,428	150,753
13	Michigan.....	194	20	1,728	8,765	1,426	3,036	6,878	23,770	13,549	33,916	3,403	2,104	30,973
131	Crude petroleum and natural gas	131	12	1,032	5,163	825	1,670	3,889	17,905	9,541	24,576	2,870	1,365	24,528
13	West North Central..	1,672	193	16,946	80,453	13,121	26,161	56,544	448,647	287,829	634,728	101,748	17,031	(NA)
131	Crude petroleum and natural gas..	1,088	118	10,958	53,703	7,789	15,019	33,658	384,190	195,817	487,331	92,676	10,406	296,266
13	North Dakota.....	90	18	1,436	8,359	1,101	2,567	6,045	33,965	48,003	57,790	24,178	1,164	( <sup>3</sup> )
131	Crude petroleum and natural gas	53	5	558	3,422	316	654	1,759	22,352	39,746	41,106	20,992	671	( <sup>3</sup> )
13	Nebraska.....	157	15	1,086	5,030	865	1,605	3,718	54,743	26,456	68,724	12,475	643	22,077
131	Crude petroleum and natural gas	109	8	569	2,814	392	703	1,767	48,869	20,486	57,940	11,415	324	18,551
13	Kansas, total....	1,395	160	13,939	64,108	11,119	21,910	46,618	359,492	212,805	507,439	64,858	15,014	337,088
131	Crude petroleum and natural gas	905	105	9,370	44,634	7,068	13,641	30,085	312,879	135,105	387,950	60,034	9,238	285,117
132	Natural gas liquids.....	15	7	328	1,882	275	549	1,533	11,788	57,460	68,630	618	(NA)	(NA)
138	Oil and gas field services..	475	48	4,241	17,592	3,776	7,720	15,000	34,825	20,240	50,859	4,206	(NA)	(NA)
13	South Atlantic, total	1,035	45	5,376	20,009	4,545	8,744	16,118	55,168	55,289	89,360	21,097	15,939	26,305
131	Crude petroleum and natural gas..	854	27	3,975	14,374	3,228	5,933	10,877	40,498	23,185	48,581	15,102	4,136	46,870
132	Natural gas liquids.....	38	4	343	1,862	323	649	1,731	8,501	28,759	31,895	5,365	430	26,770
138	Oil and gas field services...	143	14	1,058	3,773	994	2,162	3,510	6,169	3,345	8,884	630	1,373	8,665

See footnotes at end of table.



Table 2A.—General Statistics for the Oil and Gas Extraction Industries by Industry Groups, Divisions, States, and Alaska: 1958 and 1954—Continued

Ind. code	Industry group, division, and State	1958											1954	
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
13	South Atlantic—Con. West Virginia, total.....	1,008	43	5,162	18,787	4,417	8,436	15,439	53,793	51,955	86,156	19,592	5,442	62,760
131	Crude petroleum and natural gas	831	25	3,789	13,281	3,128	5,712	10,326	39,382	19,957	45,742	13,597	3,837	48,525
132	Natural gas liquids.....	38	4	343	1,862	323	649	1,731	8,501	28,759	31,895	5,365	430	26,770
138	Oil and gas field services.	139	14	1,030	3,644	966	2,075	3,382	5,910	3,239	8,519	630	1,175	7,465
13	Florida: Crude petroleum and natural gas only.....	12	2	134	853	71	169	451	( <sup>3</sup> )	1,875	1,004	846	(NA)	(NA)
13	East South Central, total.....	915	106	9,710	42,629	8,055	15,780	32,552	207,129	139,953	290,023	57,059	7,687	148,080
131	Crude petroleum and natural gas..	569	56	5,393	25,685	4,125	7,914	17,788	170,708	87,594	210,267	48,035	4,633	124,426
132	Natural gas liquids.....	11	5	230	1,306	202	400	1,103	9,011	33,473	37,543	4,941	236	25,794
138	Oil and gas field services...	335	45	4,087	15,638	3,728	7,466	13,661	27,410	18,886	42,213	4,083	2,818	17,860
13	Kentucky, total...	635	50	4,904	17,128	4,335	7,922	14,310	68,345	48,969	95,663	21,651	4,395	58,246
131	Crude petroleum and natural gas	374	30	3,091	11,410	2,635	4,880	9,079	51,640	26,231	61,814	16,057	2,889	46,407
132	Natural gas liquids.....	8	4	173	947	152	307	795	8,023	17,814	21,052	4,785	180	24,190
138	Oil and gas field services.	253	16	1,640	4,771	1,548	2,735	4,436	8,682	4,924	12,797	809	1,326	7,649
13	Alabama.....	51	6	338	1,758	306	656	1,545	12,063	9,624	17,613	4,074	243	2,289
131	Crude petroleum and natural gas	42	4	222	1,355	198	474	1,182	11,357	9,090	16,417	4,030	104	1,181
13	Mississippi, total	198	50	4,449	23,698	3,397	7,181	16,658	126,678	81,191	176,542	31,327	3,025	87,530
131	Crude petroleum and natural gas	126	22	2,071	12,896	1,285	2,551	7,509	107,714	52,136	131,909	27,941	1,629	76,874
132	Natural gas liquids.....	3	1	57	359	50	93	308	988	15,659	16,491	156	56	21,604
138	Oil and gas field services.	69	27	2,321	10,443	2,062	4,537	8,841	17,976	13,396	28,142	3,230	1,340	9,052
13	West South Central, total.....	9,347	1,704	209,976	1,157,889	138,968	292,342	665,589	5,931,822	3,202,245	7,630,431	1,503,636	206,611	4,968,271
131	Crude petroleum and natural gas..	5,625	576	112,039	668,127	58,320	116,523	293,901	4,654,605	1,967,863	5,302,044	1,320,424	103,867	3,856,800
132	Natural gas liquids.....	387	213	12,275	71,006	9,763	19,649	54,347	440,047	728,473	1,103,100	65,420	12,837	293,186
138	Oil and gas field services...	3,335	915	85,662	418,756	70,885	156,170	317,341	837,170	505,909	1,225,287	117,792	89,907	818,285
13	Arkansas, total...	294	32	2,806	13,407	2,038	3,941	8,754	80,331	31,554	98,569	13,316	2,739	70,085
131	Crude petroleum and natural gas	210	22	1,905	9,636	1,229	2,348	5,476	70,497	22,582	81,986	11,093	1,709	61,194
132	Natural gas liquids.....	9	3	205	1,242	178	392	1,039	4,114	5,554	8,112	1,556	258	24,007
138	Oil and gas field services.	75	7	696	2,529	631	1,201	2,239	5,720	3,418	8,471	667	772	4,884
13	Louisiana, total..	1,026	306	42,398	246,492	30,540	69,316	162,636	1,458,127	913,903	1,820,772	551,258	33,412	922,777
131	Crude petroleum and natural gas	529	80	20,532	130,908	11,973	25,227	71,210	1,181,307	627,217	1,321,899	486,625	16,956	738,888
132	Natural gas liquids.....	55	21	1,208	7,172	1,013	2,062	5,904	56,550	129,695	172,772	13,473	1,201	244,152
138	Oil and gas field services.	442	205	20,658	108,412	17,554	42,027	85,522	220,270	156,991	326,101	51,160	15,255	139,737
13	Oklahoma, total...	2,486	314	35,926	184,880	22,742	43,596	96,013	653,855	360,549	830,280	184,124	37,505	560,325
131	Crude petroleum and natural gas	1,661	139	22,933	126,007	12,285	22,999	53,248	523,960	247,895	606,756	165,099	22,046	433,563
132	Natural gas liquids.....	76	30	2,283	13,183	1,623	3,188	8,807	49,926	63,288	105,808	7,406	2,384	227,662
138	Oil and gas field services.	749	145	10,710	45,690	8,834	17,409	33,958	79,969	49,366	117,716	11,619	13,075	99,100

See footnotes at end of table.

Table 2A.—General Statistics for the Oil and Gas Extraction Industries by Industry Groups, Divisions, States, and Alaska: 1958 and 1954—Continued

Ind. code	Industry group, division, and State	1958											1954	
		Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery	Value of shipments and receipts	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more em- ploy- ees	Number	Payroll  (\$1,000)	Number	Man- hours  (1,000)	Wages  (\$1,000)						
13	West South Central— Continued													
131	Texas, total.....	5,541	1,052	128,846	713,110	83,648	175,489	398,186	3,739,509	1,896,239	4,880,810	754,938	132,955	3,415,084
132	Crude petroleum and natural gas	3,225	335	66,669	401,576	32,833	65,949	163,967	2,878,841	1,070,169	3,291,403	657,607	63,156	2,623,155
138	Natural gas liquids.....	247	159	8,579	49,409	6,949	14,007	38,597	329,457	529,936	816,408	42,985	8,994	2217,365
13	Oil and gas field services.	2,069	558	53,598	262,125	43,866	95,533	195,622	531,211	296,134	772,999	54,346	60,805	574,564
131	Mountain, total.....	1,600	275	24,636	143,511	16,027	33,879	82,988	973,962	535,854	1,208,363	301,453	22,517	646,437
132	Crude petroleum and natural gas..	1,001	114	14,501	89,686	7,121	14,172	38,005	841,883	384,139	951,170	274,852	12,167	529,746
138	Natural gas liquids.....	53	22	1,205	7,151	1,055	2,128	6,247	39,408	92,596	116,952	15,052	1,007	235,023
13	Oil and gas field services...	546	139	8,930	46,674	7,851	17,579	38,736	92,671	59,119	140,241	11,549	9,343	81,668
131	Montana.....	232	20	2,190	13,133	1,268	2,564	6,699	70,239	34,699	87,597	17,341	2,741	32,846
13	Crude petroleum and natural gas	172	14	1,597	9,882	751	1,422	4,041	63,121	31,095	77,729	16,487	1,582	21,720
131	Wyoming, total....	344	63	6,093	36,400	3,988	8,156	21,186	299,175	93,841	339,254	53,762	7,168	226,348
132	Crude petroleum and natural gas	209	28	3,710	23,862	1,913	3,895	10,763	272,602	72,579	296,191	48,990	4,181	193,467
138	Natural gas liquids.....	12	3	250	1,474	216	429	1,216	3,990	8,272	10,116	2,146	297	23,802
13	Oil and gas field services.	123	32	2,133	11,064	1,859	3,832	9,207	22,583	12,990	32,947	2,626	2,690	29,079
131	Colorado.....	341	62	5,252	32,482	2,465	5,018	12,655	151,420	69,671	185,346	35,745	4,754	125,468
13	Crude petroleum and natural gas	222	34	3,665	24,344	1,141	2,267	6,290	132,435	55,880	155,256	33,059	2,340	107,149
131	New Mexico, total.	556	108	9,030	48,982	6,745	14,405	33,852	381,223	267,392	500,858	147,757	6,911	247,205
132	Crude petroleum and natural gas	314	30	4,605	25,743	2,779	5,496	13,975	314,428	165,173	347,388	132,213	3,249	209,219
138	Natural gas liquids.....	26	16	771	4,650	684	1,400	4,195	28,851	77,948	95,271	11,528	627	312,520
13	Oil and gas field services.	216	62	3,654	18,589	3,282	7,509	15,682	37,944	24,271	58,199	4,016	3,035	25,466
131	Utah, total.....	97	22	1,981	12,071	1,508	3,632	8,380	73,003	68,194	95,055	46,142	755	1,127
13	Crude petroleum and natural gas	59	8	848	5,465	495	1,011	2,764	60,521	57,387	74,511	43,397	569	( <sup>3</sup> )
138	Oil and gas field services.	38	14	1,133	6,606	1,013	2,621	5,616	12,482	10,807	20,544	2,745	186	1,191
131	Pacific, total.....	935	160	23,259	151,708	15,495	30,247	86,836	1,053,820	351,053	1,262,058	142,815	27,641	1,170,222
132	Crude petroleum and natural gas..	598	69	16,665	113,026	9,879	19,351	55,618	945,738	210,730	1,020,738	135,730	17,210	1,012,206
133	Natural gas liquids.....	67	33	1,801	11,113	1,531	2,981	9,043	59,553	113,582	171,087	2,048	2,101	284,655
13	Oil and gas field services...	270	58	4,793	27,569	4,085	7,915	22,175	48,529	26,741	70,233	5,037	8,330	73,361
13	Washington.....	9	2	129	1,055	(D)	(D)	(D)	(D)	878	(D)	180	(NA)	(NA)
131	California, total.	916	158	23,106	150,513	15,453	30,163	86,618	1,054,158	349,712	1,261,450	142,420	27,521	1,170,650
132	Crude petroleum and natural gas	583	67	16,535	111,954	9,858	19,310	55,517	946,540	209,527	1,020,732	135,335	17,094	1,012,679
138	Natural gas liquids.....	67	33	1,801	11,113	1,531	2,981	9,043	59,553	113,582	171,087	2,048	2,101	284,655
13	Oil and gas field services.	266	58	4,770	27,446	4,064	7,872	22,058	48,065	26,603	69,631	5,037	8,326	73,316

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>Figures for 28 employees at central offices in Connecticut, Iowa, Minnesota, and North Carolina are included only in the United States total.<sup>2</sup>For 1954, no data were obtained on the cost of gas received for processing or on the value of residue gas. However, the estimated value, prior to processing, of natural gas liquids contained in such gas was used in computing value added in mining.<sup>3</sup>Not shown since the cost of supplies, gas purchased for gas lift and repressuring, purchased fuels and electricity, contract work, and purchased machinery installed exceeded the sum of value of shipments and receipts and capital expenditures.



Table 2B.—Selected Expenditures and Net Shipments of Primary Products of the Oil and Gas Extraction Industries, by Industry Group, for Divisions, Selected States, and Alaska: 1958

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	Selected expenses (\$1,000)					Capital expenditures (\$1,000)			Net shipments of primary products			
		Total	Supplies, purchases for re-sale, and purchased fuels and electricity	Natural gas and natural gas liquids received for processing	Contract and sub-contract work	Purchased machinery installed	Total	Development and exploration of mineral property	Plant, other construction, machinery, and equipment <sup>1</sup>	Crude petroleum, field condensate, drips, and natural gas liquids <sup>2</sup>		Natural gas <sup>3</sup>	
										Quantity <sup>4</sup> (1,000 barrels)	Value (\$1,000)	Quantity (million cubic feet)	Value (\$1,000)
13	United States, total.....	4,791,333	1,585,385	992,386	1,559,330	654,232	2,189,735	1,075,313	1,114,422	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	2,989,477	1,053,885	xxx	1,449,571	486,021	1,943,493	1,062,206	881,287	2,352,541	7,038,575	10,070,513	1,286,454
132	Natural gas liquids.....	1,132,448	55,243	992,386	44,983	39,836	94,930	xxx	94,930	294,887	699,328	7,664,890	776,153
138	Oil and gas field services...	669,408	476,257	xxx	64,776	128,375	151,312	13,107	138,205	15,268	43,619	63,723	7,817
13	Middle Atlantic, total	32,829	14,725	1,462	12,317	4,325	15,337	7,490	7,847	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas.....	25,299	10,779	xxx	11,941	2,579	13,983	7,371	6,612	8,154	33,260	81,658	23,427
138	Oil and gas field services.....	5,891	3,895	xxx	373	1,623	1,208	119	1,089	17	74	2,769	744
13	New York.....	3,182	1,691	...	1,128	363	1,871	1,198	673	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	2,824	1,410	xxx	1,118	296	1,824	1,198	626	1,652	6,692	2,710	991
13	Pennsylvania.....	29,647	13,034	1,462	11,189	3,962	13,466	6,292	7,174	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	22,475	9,369	xxx	10,823	2,283	12,159	6,173	5,986	6,502	26,568	78,948	22,436
138	Oil and gas field services...	5,533	3,614	xxx	363	1,556	1,161	119	1,042	13	67	2,769	744
13	East North Central....	186,281	<sup>5</sup> 124,861	( <sup>5</sup> )	40,905	20,515	46,590	18,205	28,385	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas.....	94,850	38,206	...	39,009	17,635	42,691	17,365	25,326	98,785	294,176	44,212	10,013
13	Ohio.....	18,446	<sup>5</sup> 8,345	( <sup>5</sup> )	6,968	3,133	9,044	3,464	5,580	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	13,899	4,828	xxx	6,333	2,738	8,594	3,405	5,189	5,176	15,250	28,741	7,391
13	Indiana.....	12,433	5,911	...	4,326	2,196	5,052	2,011	3,041	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	10,716	4,700	xxx	4,173	1,843	4,678	1,971	2,707	10,309	30,709	467	62
13	Illinois.....	141,853	<sup>5</sup> 103,661	( <sup>5</sup> )	24,591	13,601	29,091	11,773	17,318	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	60,694	24,973	xxx	23,741	11,980	26,549	11,064	15,485	75,691	226,117	4,614	613
13	Michigan.....	13,549	<sup>5</sup> 6,944	( <sup>5</sup> )	5,020	1,585	3,403	957	2,446	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	9,541	3,705	xxx	4,762	1,074	2,870	925	1,945	7,609	22,100	10,390	1,957
13	West North Central....	287,829	<sup>5</sup> 157,695	( <sup>5</sup> )	87,795	42,339	101,748	42,813	58,935	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas.....	195,817	76,542	xxx	83,243	36,032	92,676	41,961	50,715	140,498	412,027	555,316	65,796
13	North Dakota.....	48,003	<sup>5</sup> 18,635	( <sup>5</sup> )	21,310	8,058	24,178	9,005	15,173	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	39,746	13,349	xxx	20,310	6,087	20,992	8,567	12,425	13,689	40,029	14,137	1,050
13	Nebraska.....	26,456	<sup>5</sup> 11,190	( <sup>5</sup> )	10,791	4,475	12,475	5,768	6,707	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	20,486	6,409	xxx	10,386	3,691	11,415	5,718	5,697	17,900	52,038	16,629	4,955
13	Kansas, total.....	212,805	71,570	56,061	55,395	29,779	64,858	27,839	37,019	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	135,105	56,621	xxx	52,256	26,228	60,034	27,475	32,559	108,788	319,628	524,531	59,789
132	Natural gas liquids.....	57,460	1,053	56,061	189	157	618	xxx	618	5,177	10,957	382,122	57,661
138	Oil and gas field services...	20,240	13,896	xxx	2,950	3,394	4,206	364	3,842	1,065	3,109	4,165	432
13	South Atlantic.....	55,289	15,190	22,338	9,423	8,338	21,097	10,084	11,013	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas.....	23,185	11,456	xxx	8,991	2,738	15,102	10,013	5,089	2,472	7,928	175,760	40,490
132	Natural gas liquids.....	28,759	1,100	22,338	278	5,043	5,365	xxx	5,365	6,620	10,702	151,670	21,081
138	Oil and gas field services.....	3,345	2,634	xxx	154	557	630	71	559	48	166	689	126
13	West Virginia, total	51,955	14,093	22,338	7,283	8,241	19,592	8,861	10,731	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	19,957	10,455	xxx	6,861	2,641	13,597	8,790	4,807	(D)	6,915	168,792	38,666
132	Natural gas liquids.....	28,759	1,100	22,338	278	5,043	5,365	xxx	5,365	6,620	10,702	151,670	21,081
138	Oil and gas field services...	3,239	2,538	xxx	144	557	630	71	559	(D)	(D)	689	126

See footnotes at end of table.

Table 2B.—Selected Expenditures and Net Shipments of Primary Products of the Oil and Gas Extraction Industries, by Industry Group, for Divisions, Selected States, and Alaska: 1958—Continued

Ind. code	Industry group, division, and State	Selected expenses (\$1,000)					Capital expenditures (\$1,000)			Net shipments of primary products			
		Total	Supplies, purchases for re-sale, and purchased fuels and electricity	Natural gas and natural gas liquids received for processing	Contract and sub-contract work	Purchased machinery installed	Total	Development and exploration of mineral property	Plant, other construction, machinery, and equipment <sup>1</sup>	Crude petroleum, field condensate, drips, and natural gas liquids <sup>2</sup>		Natural gas <sup>3</sup>	
										Quantity <sup>4</sup> (1,000 barrels)	Value (\$1,000)	Quantity (million cubic feet)	Value (\$1,000)
13	East South Central, total.....	139,953	46,771	28,030	47,047	18,105	57,059	25,297	31,762	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas.....	87,594	33,139	xxx	40,277	14,178	48,035	25,203	22,832	58,718	167,203	215,309	38,410
132	Natural gas liquids.	33,473	572	28,030	4,721	150	4,941	xxx	4,941	7,312	12,158	584,956	24,649
138	Oil and gas field services.....	18,886	13,060	xxx	2,049	3,777	4,083	94	3,989	832	2,456	988	115
13	Kentucky, total.....	48,969	14,692	12,634	15,824	5,819	21,651	8,615	13,036	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	26,231	10,542	xxx	10,646	5,043	16,057	8,544	7,513	15,050	44,665	67,423	16,074
132	Natural gas liquids.....	17,814	441	12,634	4,714	25	4,785	xxx	4,785	6,572	10,291	(NA)	10,325
138	Oil and gas field services...	4,924	3,709	xxx	464	751	809	71	738	153	510	15	3
13	Alabama.....	9,624	4,662	...	3,109	1,853	4,074	673	3,401	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	9,090	4,180	xxx	3,100	1,810	4,030	673	3,357	5,373	15,612	26	3
13	Mississippi, total..	81,191	27,287	15,396	28,084	10,424	31,327	16,002	15,325	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	52,136	18,318	xxx	26,501	7,317	27,941	15,979	11,962	38,289	106,908	147,697	22,228
132	Natural gas liquids.....	15,659	131	15,396	7	125	156	xxx	156	740	1,867	(NA)	14,324
138	Oil and gas field services...	13,396	8,838	xxx	1,576	2,982	3,230	23	3,207	679	1,946	973	112
13	West South Central, total.....	3,202,245	1,070,283	630,975	1,056,074	444,913	1,503,636	737,326	766,310	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas.....	1,967,863	670,203	xxx	977,401	320,259	1,320,424	726,806	593,618	1,429,215	4,375,321	7,627,130	893,509
132	Natural gas liquids.	728,473	39,633	630,975	33,320	24,545	65,420	xxx	65,420	213,630	506,431	5,241,323	462,077
138	Oil and gas field services.....	505,909	360,447	xxx	45,353	100,109	117,792	10,520	107,272	10,897	31,340	49,828	5,200
13	Arkansas, total.....	31,554	12,702	3,456	10,561	4,835	13,316	5,610	7,706	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	22,582	9,967	xxx	8,770	3,845	11,093	5,516	5,577	26,890	76,642	33,131	4,347
132	Natural gas liquids.....	5,554	551	3,456	1,222	325	1,556	xxx	1,556	2,267	5,390	33,539	2,707
138	Oil and gas field services...	3,418	2,184	xxx	569	665	667	94	573	272	740	...	...
13	Louisiana, total....	913,903	323,044	112,602	342,713	135,544	551,258	290,480	260,778	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	627,217	223,588	xxx	316,410	87,219	486,625	284,511	202,114	310,954	1,002,643	2,205,733	313,919
132	Natural gas liquids.....	129,695	4,150	112,602	5,982	6,961	13,473	xxx	13,473	24,747	70,580	876,149	91,253
138	Oil and gas field services...	156,991	95,306	xxx	20,321	41,364	51,160	5,969	45,191	1,793	5,464	23,898	3,266
13	Oklahoma, total.....	360,549	125,553	50,538	125,892	58,566	184,124	96,607	87,517	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	247,895	85,282	xxx	118,670	43,943	165,099	94,794	70,305	185,262	545,058	635,182	58,226
132	Natural gas liquids.....	63,288	5,445	50,538	2,837	4,468	7,406	xxx	7,406	28,162	54,964	589,221	43,402
138	Oil and gas field services...	49,366	34,826	xxx	4,385	10,155	11,619	1,813	9,806	2,573	7,475	9,764	735
13	Texas, total.....	1,896,239	608,984	464,379	576,908	245,968	754,938	344,629	410,309	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	1,070,169	351,366	xxx	533,551	185,252	657,607	341,985	315,622	906,109	2,750,978	4,753,084	517,017
132	Natural gas liquids.....	529,936	29,487	464,379	23,279	12,791	42,985	xxx	42,985	158,454	375,497	3,742,414	324,715
138	Oil and gas field services...	296,134	228,131	xxx	20,078	47,925	54,346	2,644	51,702	6,259	17,661	16,166	1,199
13	Mountain, total.....	535,854	175,937	73,315	205,671	80,931	301,453	150,701	150,752	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas....	384,139	128,041	xxx	192,657	63,441	274,852	150,114	124,738	303,990	852,034	945,567	96,539
132	Natural gas liquids.....	92,596	6,467	73,315	4,698	8,116	15,052	xxx	15,052	22,633	45,386	639,166	63,404
138	Oil and gas field services.....	59,119	41,429	xxx	8,316	9,374	11,549	587	10,962	830	2,424	4,203	327
13	Montana.....	34,699	14,127	( <sup>5</sup> )	15,447	5,125	17,341	8,290	9,051	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	31,095	11,312	...	15,035	4,748	16,487	8,281	8,206	28,386	75,367	30,121	2,095

See footnotes at end of table.



Table 2B.—Selected Expenditures and Net Shipments of Primary Products of the Oil and Gas Extraction Industries, by Industry Group, for Divisions, Selected States, and Alaska: 1958—Continued

Ind. code	Industry group, division, and State	Selected expenses (\$1,000)					Capital expenditures (\$1,000)			Net shipments of primary products			
		Total	Supplies, purchases for re-sale, and purchased fuels and electricity	Natural gas and natural gas liquids received for processing	Contract and sub-contract work	Purchased machinery installed	Total	Development and exploration of mineral property	Plant, other construction, machinery, and equipment <sup>1</sup>	Crude petroleum, field condensate, drips, and natural gas liquids <sup>2</sup>		Natural gas <sup>3</sup>	
										Quantity <sup>4</sup> (1,000 barrels)	Value (\$1,000)	Quantity (million cubic feet)	Value (\$1,000)
13	Mountain—Continued												
131	Wyoming, total.....	93,841	33,650	4,950	39,149	16,092	53,762	28,084	25,678	xxx	xxx	xxx	xxx
132	Crude petroleum and natural gas..	72,579	23,896	xxx	35,890	12,793	48,990	27,569	21,421	108,209	281,526	124,846	14,225
138	Natural gas liquids.....	8,272	809	4,950	1,557	956	2,146	xxx	2,146	2,522	5,779	46,310	4,106
13	Oil and gas field services...	12,990	8,945	xxx	1,702	2,343	2,626	515	2,111	153	443	2,514	175
131	Colorado.....	69,671	25,466	( <sup>5</sup> )	26,928	17,277	35,745	12,587	23,158	xxx	xxx	xxx	xxx
132	Crude petroleum and natural gas..	55,880	15,556	...	24,713	15,611	33,059	12,554	20,505	48,113	143,027	78,253	11,788
13	New Mexico, total...	267,392	78,378	63,615	92,489	32,910	147,757	76,338	71,419	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	165,173	56,605	xxx	86,074	22,494	132,213	76,308	55,905	94,843	280,194	694,427	65,833
132	Natural gas liquids.....	77,948	4,763	63,615	2,970	6,600	11,528	xxx	11,528	16,903	32,421	538,513	55,059
138	Oil and gas field services...	24,271	17,010	xxx	3,445	3,816	4,016	30	3,986	536	1,554	1,392	121
13	Utah, total.....	68,194	28,466	...	30,271	9,457	46,142	24,785	21,357	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	57,387	20,103	xxx	29,559	7,725	43,397	24,785	18,612	(D)	(D)	(D)	(D)
138	Oil and gas field services...	10,807	8,363	xxx	712	1,732	2,745	...	2,745	(D)	(D)	(D)	(D)
13	Pacific, total.....	351,053	109,709	106,442	100,147	34,755	142,815	83,386	59,429	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas.....	210,730	85,519	xxx	96,052	29,159	135,730	83,367	52,363	310,709	896,626	425,561	118,270
132	Natural gas liquids.	113,582	4,842	106,442	1,239	1,059	2,048	xxx	2,048	28,541	85,878	462,521	79,502
138	Oil and gas field services.....	26,741	19,348	xxx	2,856	4,537	5,037	19	5,018	58	144	28	9
13	California, total...	349,712	109,368	106,442	99,159	34,743	142,420	83,007	59,413	xxx	xxx	xxx	xxx
131	Crude petroleum and natural gas..	209,527	85,293	xxx	95,087	29,147	135,335	82,988	52,347	310,707	896,620	425,561	118,270
132	Natural gas liquids.....	113,582	4,842	106,442	1,239	1,059	2,048	xxx	2,048	28,541	85,878	462,521	79,502
138	Oil and gas field services...	26,603	19,233	xxx	2,833	4,537	5,037	19	5,018	58	144	28	9

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>Represents expenditures during the year for both new and used plant and equipment.<sup>2</sup>For natural gas liquids, represents gross shipments less natural gas liquids received for further processing.<sup>3</sup>For the Natural Gas Liquids Industry, represents residue gas shipped.<sup>4</sup>Includes crude petroleum produced and used at the same establishment in lease operations for power, heat, or other purposes. For all operations in the United States such use in 1958 amounted to 1,597 barrels.<sup>5</sup>The cost of natural gas and natural gas liquids received for processing is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.

Table 3A.—Detailed Statistics for the Oil and Gas Extraction Industries in the United States: 1958

Line	13— Oil and gas extraction industries, total	1311—Crude petroleum and natural gas industry			1321— Natural gas liquids industry	133—Oil and gas field services industries			
		Industry, total	Crude petroleum subindus- try	Natural gas sub- industry		Industry group, total	1381— Drilling oil and gas wells industry	1382— Oil and gas field explora- tion services industry	1389— Oil and gas field services industry, net
Number of operating companies.....	15,363	9,835	8,764	1,241	176	5,682	2,911	329	2,456
Number of establishments, total.....	18,501	11,993	10,603	1,390	593	5,915	3,064	347	2,504
With 0-19 employees.....	15,812	10,901	9,629	1,272	303	4,608	2,244	271	2,093
With 20-99 employees.....	2,327	872	782	90	277	1,178	749	57	372
With 100 employees and over.....	362	220	192	28	13	129	71	19	39
Number of wells producing during December 1958, total.....	547,563	539,077	478,039	61,038	xxx	8,506	(NA)	(NA)	(NA)
Oil wells <sup>1</sup> .....	472,836	465,193	457,426	7,767	xxx	7,643	(NA)	(NA)	(NA)
Gas wells <sup>1</sup> .....	74,747	73,884	20,613	53,271	xxx	863	(NA)	(NA)	(NA)
Crude petroleum, field condensate, and drips shipped or used.....1,000 barrels..	2,367,809	2,352,541	2,306,688	45,853	xxx	15,268	14,722	5	538
Natural gas liquids net shipments.....do..	294,887	xxx	xxx	xxx	294,887	xxx	xxx	xxx	xxx
Natural gas produced.....million cu. ft..	12,152,585	12,085,272	8,859,674	3,225,598	xxx	67,313	62,890	...	4,423
Natural gas shipped.....do..	10,134,236	10,070,513	7,080,650	2,989,863	27,664,890	63,723	(NA)	...	(NA)
Value of shipments and receipts, total...\$1,000..	11,636,887	8,385,906	7,809,898	576,008	1,625,098	1,625,883	904,939	87,215	633,729
Residue gas shipped.....do..	776,153	xxx	xxx	xxx	776,153	xxx	xxx	xxx	xxx
Natural gas liquids received for processing.....do..	142,030	xxx	xxx	xxx	142,030	xxx	xxx	xxx	xxx
Products purchased and resold without further processing.....do..	62,672	1,320	1,291	29	...	61,352	2,218	1,107	58,027
Net shipments and receipts, total.....do..	10,656,032	8,384,586	7,808,607	575,979	706,915	1,564,531	902,721	86,108	575,702
Crude petroleum, field condensate, and drips.....do..	7,082,194	7,038,575	6,899,121	139,454	xxx	43,619	42,027	24	1,568
Natural gas liquids.....do..	699,328	xxx	xxx	xxx	699,328	xxx	xxx	xxx	xxx
Natural gas.....do..	1,294,271	1,286,454	853,889	432,565	xxx	7,817	7,488	...	329
Other products.....do..	7,708	121	117	4	7,587	...	...	...	...
Receipts for services.....do..	1,572,531	59,436	55,480	3,956	...	1,513,095	853,206	86,084	573,805
Value added in mining.....do..	9,035,269	7,339,922	6,823,328	516,594	587,580	1,107,787	587,440	64,353	455,994
Number of persons engaged, total.....	333,185	194,321	177,139	17,182	16,566	122,298	62,617	9,836	49,845
Production and development workers, average for the year.....	213,935	102,445	92,358	10,087	13,445	98,045	52,274	7,559	38,212
All other employees.....	98,865	77,595	72,365	5,230	3,069	18,201	7,137	1,998	9,066
Proprietors and firm members.....	20,385	14,281	12,416	1,865	52	6,052	3,206	279	2,567
Performing manual labor.....	6,918	3,984	3,658	326	8	2,926	1,346	127	1,453
Man-hours worked by production and develop- ment workers, total.....1,000..	440,102	200,930	181,246	19,684	26,947	212,225	109,470	16,695	86,060
Operating and maintaining wells.....do..	162,257	158,637	143,789	14,848	xxx	3,620	2,604	1	1,015
Drilling wells and rig building.....do..	131,778	25,188	22,566	2,622	xxx	106,590	103,625	129	2,836
Exploration work (except drilling).....do..	27,572	11,171	10,372	799	xxx	16,401	196	15,941	264
Other work.....do..	118,495	5,934	4,519	1,415	26,947	85,614	3,045	624	81,945
Principal expenses designated below, total.....\$1,000..	5,836,521	3,545,642	3,216,495	329,147	1,188,931	1,101,948	624,303	67,518	410,127
Wages of production and development workers.....do..	1,010,679	497,571	452,947	44,624	75,739	437,369	239,328	31,115	166,926
Salaries of all other employees.....do..	688,741	544,615	512,911	31,704	20,580	123,546	49,915	12,534	61,097
Supplies, gas purchased for gas lift and repressuring, and purchases for resale.....do..	1,401,400	951,911	832,555	119,356	46,026	403,463	241,491	16,396	145,576
Natural gas received for processing.....do..	850,356	xxx	xxx	xxx	850,356	xxx	xxx	xxx	xxx
Natural gas liquids received for further processing.....do..	142,030	xxx	xxx	xxx	142,030	xxx	xxx	xxx	xxx
Fuels purchased.....do..	130,652	56,204	53,083	3,121	4,521	69,927	40,942	3,535	25,450
Electric energy purchased.....do..	53,333	45,770	44,627	1,143	4,696	2,867	1,261	295	1,311
Contract work.....do..	1,559,330	1,449,571	1,320,372	129,199	44,983	64,776	51,366	3,643	9,767
Purchased machinery installed.....do..	654,232	486,021	443,166	42,855	39,836	128,375	84,457	6,075	37,843
Capital expenditures, total.....\$1,000..	2,189,735	1,943,493	1,707,233	236,260	94,930	151,312	102,018	7,082	42,212
Development and exploration of mineral property.....do..	1,075,313	1,062,206	935,699	126,507	xxx	13,107	12,953	...	154
New structures, additions to fixed plant, and other construction.....do..	259,739	197,674	150,227	47,447	53,566	8,499	3,322	554	4,623
New machinery and equipment.....do..	796,001	646,389	586,948	59,441	40,441	109,171	68,149	6,207	34,815
Used plant and equipment.....do..	58,682	37,224	34,359	2,865	923	20,535	17,594	321	2,620

See footnotes at end of table.



Table 3A.—Detailed Statistics for the Oil and Gas Extraction Industries in the United States: 1958—Continued

Item	13— Oil and gas extraction industries, total	1311—Crude petroleum and natural gas industry			1321— Natural gas liquids industry	138—Oil and gas field services industries			
		Industry, total	Crude petroleum subindus- try	Natural gas sub- industry		Industry group, total	1381— Drilling oil and gas wells industry	1382— Oil and gas field explora- tion services industry	1389— Oil and gas field services industry, nec
Energy used.....million kwh equivalent..	310,313	137,440	128,265	9,175	142,130	<sup>3</sup> 30,743	<sup>3</sup> 22,617	<sup>3</sup> 949	<sup>3</sup> 7,177
Fuels produced and used at same establishment:									
Crude petroleum.....1,000 barrels..	651	649	617	32	xxx	2	1	...	1
Natural gas.....million cu. ft..	759,103	331,747	306,071	25,676	<sup>2</sup> 426,920	436	433	...	3
Fuels purchased:									
Fuel oil.....1,000 barrels..	5,035	1,089	1,035	54	68	3,878	3,314	29	535
Gas.....million cu. ft..	135,148	60,609	59,232	1,377	32,815	41,724	39,378	116	2,230
Other fuels.....\$1,000..	59,914	23,097	22,235	862	471	36,346	18,013	2,170	16,163
Undistributed.....do..	24,786	17,267	15,645	1,622	...	7,519	422	1,228	5,869
Electric energy purchased.....million kwh..	4,275	3,658	3,576	82	436	181	99	15	67
Electric energy generated and used.....do..	1,554	192	188	4	1,059	303	301	2	( <sup>4</sup> )

NA Not available.

<sup>1</sup>For wells that produced both oil and gas, respondents were requested to classify the wells according to the more valuable total product; classifying "distillate" wells as oil wells if the value of all liquids produced was greater than the value of all gas produced, but otherwise classifying them as gas wells.

<sup>2</sup>Represents residue gas. For shipments, the quantity figure has not been added into the total for major Group 13—Oil and gas extraction, since it duplicates production in the other industries of this group.

<sup>3</sup>Excludes fuels furnished without charge by oil and gas companies for whom work was performed. Such fuels are included in the figures shown for Industries 1311 and 1321.

<sup>4</sup>Less than one-half of the unit of measure specified.

Table 3B.—Number, Footage, and Cost of Drilling and Equipping Wells Drilled in the United States, by Source of Information: 1958

Item	All wells drilled as reported by operators, including allocated figures for payments to contractors					All wells drilled as reported by operators, excluding payments to contractors			Wells drilled on contract for others as reported by contractors
	All wells			Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	
	Total number, footage, or cost	Cost per well (\$1)	Cost per foot (\$1)						
Number of wells drilled, total <sup>1</sup> .....	46,954	xxx	xxx	35,192	11,762	46,954	35,192	11,762	37,977
Oil wells <sup>2</sup> .....	23,754	xxx	xxx	17,920	5,834	23,754	17,920	5,834	21,327
Gas wells <sup>2</sup> .....	4,526	xxx	xxx	3,764	762	4,526	3,764	762	3,429
Dry holes <sup>3</sup> .....	16,351	xxx	xxx	11,800	4,551	16,351	11,800	4,551	12,140
Service wells <sup>3</sup> .....	2,323	xxx	xxx	1,708	615	2,323	1,708	615	1,081
Footage drilled, total.....1,000 ft..	193,626	xxx	xxx	152,137	41,489	193,626	152,137	41,489	153,332
Oil wells.....do....	92,663	xxx	xxx	73,095	19,568	92,663	73,095	19,568	82,366
Gas wells.....do....	24,584	xxx	xxx	20,638	3,946	24,584	20,638	3,946	16,991
Dry holes.....do....	72,837	xxx	xxx	55,583	17,254	72,837	55,583	17,254	52,339
Service wells.....do....	3,542	xxx	xxx	2,821	721	3,542	2,821	721	1,636
Average footage drilled per well, all wells.....	4,124	xxx	xxx	4,323	3,527	4,124	4,323	3,527	4,037
Oil wells.....do....	3,901	xxx	xxx	4,079	3,354	3,901	4,079	3,354	3,862
Gas wells.....do....	5,431	xxx	xxx	5,482	5,177	5,431	5,482	5,177	4,955
Dry holes.....do....	4,455	xxx	xxx	4,711	3,791	4,455	4,711	3,791	4,311
Service wells.....do....	1,524	xxx	xxx	1,651	1,172	1,524	1,651	1,172	1,513
Costs designated below for drilling and equipping wells, total <sup>4</sup> .....\$1,000 <sup>5</sup> ..	2,424,798	51,642	12.52	1,968,097	456,701	1,419,729	998,724	421,005	631,727
Oil wells.....do....	1,310,523	55,171	14.14	1,055,394	255,129	837,837	602,679	235,158	335,941
Gas wells.....do....	440,833	97,400	17.93	363,790	77,043	271,357	198,639	72,718	83,741
Dry holes.....do....	649,342	39,713	8.92	528,290	121,052	297,376	187,372	110,004	206,944
Service wells.....do....	24,100	10,375	6.80	20,623	3,477	13,159	10,034	3,125	5,101
Cost of drilling, total <sup>6</sup> .....do....	1,731,490	36,876	8.94	1,406,187	325,303	733,444	443,591	289,853	627,369
Oil wells.....do....	811,729	34,172	8.76	656,766	154,963	342,629	207,486	135,143	333,392
Gas wells.....do....	307,268	67,890	12.50	251,667	55,601	139,973	88,642	51,331	82,663
Dry holes.....do....	596,103	36,457	8.18	483,604	112,499	245,331	143,842	101,489	206,242
Service wells.....do....	16,390	7,056	4.63	14,150	2,240	5,511	3,621	1,890	5,072
Cost of casing, total <sup>7</sup> .....do....	389,405	8,293	2.01	315,610	73,795	384,487	310,860	73,627	2,937
Oil wells.....do....	247,087	10,402	2.67	196,366	50,721	244,930	194,300	50,630	1,463
Gas wells.....do....	87,982	19,439	3.58	73,561	14,421	86,436	72,054	14,382	764
Dry holes.....do....	49,451	3,024	0.68	41,587	7,864	48,276	40,449	7,827	691
Service wells.....do....	4,885	2,103	1.38	4,096	789	4,845	4,057	788	19
Cost of equipment for flowing and pump- ing and production derrick, total <sup>8</sup> .....do....	303,903	6,472	1.57	246,300	57,603	301,798	244,273	57,525	1,421
Oil wells.....do....	251,707	10,596	2.72	202,262	49,445	250,278	200,893	49,385	1,086
Gas wells.....do....	45,583	10,071	1.85	38,562	7,021	44,948	37,943	7,005	314
Dry holes.....do....	3,788	232	0.05	3,099	689	3,769	3,081	688	11
Service wells.....do....	2,825	1,216	0.80	2,377	448	2,803	2,356	447	10
Man-hours worked by wage earners in drilling wells and rig building.....1,000..	131,778	xxx	xxx	(NA)	(NA)	25,188	(NA)	(NA)	106,590

NA Not available.

<sup>1</sup>Represents wells drilled which were completed during 1958, wells completed during 1958 although begun in 1957, and wells drilled and abandoned before completion during 1958.<sup>2</sup>For wells that produced both oil and gas, respondents were requested to classify the wells according to the more valuable total product. They were requested to classify "distillate" wells as oil wells if the value of all liquids produced was greater than the value of gas produced; but otherwise to classify them as gas wells.<sup>3</sup>Dry holes represent wells drilled and abandoned without commercial production during 1958. Service wells include gas-injection, water-injection, and brine-disposal wells. The distinction between dry holes and service wells was not made uniformly by all respondents; hence, the combined figures for dry holes and service wells are somewhat more significant than the separate figures for each class.<sup>4</sup>Represents only the tangible costs specified; respondents were asked to exclude taxes, interest on investment, overhead costs, etc. Operators reported \$1,005,069 thousand paid or due contractors for drilling and equipping wells. For columns 1 through 5, this amount was distributed among the component costs in direct proportion to the cost breakdowns reported by contractors.<sup>5</sup>All figures are in thousands of dollars, except columns 2 and 3 which are in dollars.<sup>6</sup>Represents the cost of labor, supplies, water, fuel, and power used in such operations as: moving on to location all equipment and supplies incidental to operations; excavating for and building derrick foundation; digging slush pits; erecting and wiring derricks; building loading and pipe racks; laying fuel and water lines; rigging up; drilling hole; making straight-hole tests or surveys; coring; well logging and core analysis; testing formations; mud conditioning; reaming; running casing, screen, and liner; cleaning out, bailing, and swabbing; fishing; repairing and maintaining rig and derrick; tearing down rig; dismantling derrick and racks; and moving equipment off location. It includes tool charges and rentals, but excludes the value of materials salvaged after use and the cost of the drilling derrick if it was left over well for production after completion.<sup>7</sup>Includes the cost of delivering and installing equipment. Excludes the value of equipment that was salvaged and used again but includes the cost of salvaging.<sup>8</sup>See footnote 7. Includes tubing, wellhead fittings, gas traps, flow tanks, etc., drilling derricks retained over well after completion, and special-production derricks.



Table 4.—Selected Statistics for Oil and Gas Extraction Establishments Classified by Employment Size, for the United States, and Number of Establishments by Employment Size for Divisions, States, and Alaska: 1958

(For explanation of line captions see Introduction)

Ind. code	Industry, item, division, and State	All establishments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
13	United States, total:											
	Oil and gas extraction:											
	Number of establishments.....	18,501	11,053	2,527	2,232	1,752	575	244	59	32	22	5
	All employees:											
	Number.....	<sup>1</sup> 312,800	17,152	16,889	30,479	53,245	38,581	<sup>2</sup> 38,859	<sup>2</sup> 19,997	<sup>3</sup> 30,312	33,050	<sup>3</sup> 9,934
	Payroll...\$1,000..	<sup>1</sup> 1,699,420	55,955	66,454	130,049	256,128	207,948	<sup>2</sup> 221,694	<sup>2</sup> 121,655	<sup>3</sup> 187,999	206,036	<sup>3</sup> 62,787
	Production out development workers:											
	Number.....	213,935	15,763	13,626	25,007	43,301	29,802	<sup>2</sup> 27,727	<sup>2</sup> 12,388	<sup>3</sup> 20,747	20,029	<sup>3</sup> 5,545
	Man-hours...1,000..	440,102	25,136	25,688	48,714	86,799	64,075	<sup>2</sup> 60,259	<sup>2</sup> 26,482	<sup>3</sup> 48,312	44,101	<sup>3</sup> 10,536
	Wages...\$1,000..	1,010,679	49,224	50,097	98,414	190,658	143,921	<sup>2</sup> 141,711	<sup>2</sup> 69,852	<sup>3</sup> 117,642	115,731	<sup>3</sup> 33,429
	Value added in mining.....do..	9,035,289	351,477	317,704	553,972	1,092,811	887,029	<sup>2</sup> 1,339,950	<sup>2</sup> 1,006,969	<sup>3</sup> 1,257,873	1,507,221	<sup>3</sup> 720,283
	Value of shipment and receipts.....do..	11,636,887	552,681	447,687	831,881	1,850,167	1,304,561	<sup>2</sup> 1,707,662	<sup>2</sup> 1,098,127	<sup>3</sup> 1,384,395	1,692,624	<sup>3</sup> 767,102
	Capital expenditures.....do..	2,189,735	132,308	76,210	163,878	234,986	238,137	<sup>2</sup> 312,392	<sup>2</sup> 246,628	<sup>3</sup> 237,991	397,391	<sup>3</sup> 149,814
131	Crude petroleum and natural gas:											
	Number of establishments.....	11,993	8,575	1,369	957	638	234	133	45	23	16	3
	All employees:											
	Number.....	<sup>1</sup> 180,040	12,043	9,056	12,946	19,062	16,153	<sup>2</sup> 21,462	<sup>2</sup> 15,976	<sup>3</sup> 15,886	24,479	9,934
	Payroll...\$1,000..	<sup>1</sup> 1,042,186	37,679	37,365	57,537	97,885	91,753	<sup>2</sup> 130,959	<sup>2</sup> 96,988	<sup>3</sup> 98,421	156,544	62,787
	Production and development workers:											
	Number.....	102,445	11,007	6,640	9,320	12,927	10,348	<sup>2</sup> 12,689	<sup>2</sup> 9,305	<sup>3</sup> 10,521	14,143	5,545
	Man-hours...1,000..	200,930	16,320	12,645	18,003	26,052	22,256	<sup>2</sup> 26,442	<sup>2</sup> 19,033	<sup>3</sup> 21,798	27,845	10,536
	Wages...\$1,000..	497,571	32,509	24,334	35,438	56,936	49,587	<sup>2</sup> 68,892	<sup>2</sup> 51,915	<sup>3</sup> 61,156	83,375	33,429
	Value added in mining.....do..	7,339,922	304,465	252,031	351,544	631,159	547,810	<sup>2</sup> 1,101,838	<sup>2</sup> 950,782	<sup>3</sup> 1,050,528	1,429,482	720,283
	Value of shipments, and receipts.....do..	8,385,906	470,987	332,680	469,995	780,640	658,579	<sup>2</sup> 1,223,908	<sup>2</sup> 1,018,668	<sup>3</sup> 1,100,567	1,562,780	767,102
	Capital expenditures.....do..	1,943,493	115,771	64,161	130,707	177,860	194,886	<sup>2</sup> 275,796	<sup>2</sup> 230,720	<sup>3</sup> 220,663	383,115	149,814
132	Natural gas liquids:											
	Number of establishments.....	593	88	71	144	213	64	13	...	...	...	...
	All employees:											
	Number.....	<sup>1</sup> 16,514	191	494	2,063	6,685	4,036	<sup>2</sup> 2,073	...	...	...	...
	Payroll...\$1,000..	<sup>1</sup> 96,319	1,037	2,668	11,678	38,611	23,805	<sup>2</sup> 12,239	...	...	...	...
	Production and related workers:											
	Number.....	13,445	178	432	1,831	5,889	3,349	<sup>2</sup> 1,766	...	...	...	...
	Man-hours...1,000..	26,947	355	900	3,788	11,757	6,677	<sup>2</sup> 3,470	...	...	...	...
	Wages...\$1,000..	75,739	870	2,266	10,199	33,094	19,159	<sup>2</sup> 10,151	...	...	...	...
	Value added in mining.....do..	587,580	4,369	10,351	79,411	231,436	159,376	<sup>2</sup> 102,637	...	...	...	...
	Value of shipments and receipts.....do..	1,625,098	23,642	37,975	186,255	731,345	370,247	<sup>2</sup> 275,634	...	...	...	...
	Capital expenditures.....do..	94,930	13,574	7,720	15,635	29,433	12,837	<sup>2</sup> 15,731	...	...	...	...
138	Oil and gas field services:											
	Number of establishments....	5,915	2,390	1,087	1,131	901	277	98	14	9	6	2
	All employees:											
	Number.....	<sup>1</sup> 116,246	4,918	7,339	15,470	27,498	18,392	<sup>2</sup> 15,324	<sup>2</sup> 4,021	<sup>3</sup> 14,426	8,571	( <sup>3</sup> )
	Payroll...\$1,000..	<sup>1</sup> 560,915	17,239	26,421	60,834	119,632	92,390	<sup>2</sup> 78,496	<sup>2</sup> 24,667	<sup>3</sup> 89,578	49,492	( <sup>3</sup> )

See footnotes at end of table.

Table 4.—Selected Statistics for Oil and Gas Extraction Establishments Classified by Employment Size, for the United States, and Number of Establishments by Employment Size for Divisions, States, and Alaska: 1958—Continued

Ind. code	Industry, item, division, and State	All establishments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
	United States, total—Continued											
	Oil and gas extraction—Continued											
	Oil and gas field services—Continued											
	Production and development workers:											
	Number.....	98,045	4,578	6,554	13,856	24,485	16,105	<sup>2</sup> 13,272	<sup>2</sup> 3,083	<sup>3</sup> 10,226	5,886	( <sup>3</sup> )
	Man-hours....1,000..	212,225	8,461	12,143	26,923	48,990	35,142	<sup>2</sup> 30,347	<sup>2</sup> 7,449	<sup>3</sup> 26,514	16,256	( <sup>3</sup> )
	Wages....\$1,000..	437,369	15,845	23,497	52,777	100,628	75,175	<sup>2</sup> 62,668	<sup>2</sup> 17,937	<sup>3</sup> 56,486	32,356	( <sup>3</sup> )
	Value added in mining.....do..	1,107,787	42,643	55,322	123,017	230,216	179,843	<sup>2</sup> 135,475	<sup>2</sup> 56,187	<sup>3</sup> 207,345	77,739	( <sup>3</sup> )
	Value of shipments and receipts.....do..	1,625,883	58,052	77,032	175,631	338,182	275,735	<sup>2</sup> 208,120	<sup>2</sup> 79,459	<sup>3</sup> 283,828	129,844	( <sup>3</sup> )
	Capital expenditures.....do..	151,312	2,963	4,329	17,536	27,693	30,414	<sup>2</sup> 20,865	<sup>2</sup> 15,908	<sup>3</sup> 17,328	14,276	( <sup>3</sup> )
	Number of establishments by division and State:											
	Middle Atlantic, total..	1,065	866	112	37	32	10	6	1	1	...	...
	New York.....	235	201	24	3	5	2	...	...	...	...	...
	Pennsylvania.....	830	665	88	34	27	8	6	1	1	...	...
	East North Central, total.....	1,932	1,323	252	201	116	26	9	3	2	...	...
	Ohio.....	587	456	73	40	12	4	1	1	...	...	...
	Indiana.....	352	262	49	27	12	1	1	...	...	...	...
	Illinois.....	799	477	109	109	79	16	5	2	2	...	...
	Michigan.....	194	128	21	25	13	5	2	...	...	...	...
	West North Central, total.....	1,672	1,029	224	226	140	35	16	1	1	...	...
	Missouri.....	18	16	2	...	...	...	...	...	...	...	...
	North Dakota.....	90	49	12	11	11	4	3	...	...	...	...
	South Dakota.....	12	12	...	...	...	...	...	...	...	...	...
	Nebraska.....	157	104	18	20	13	1	1	...	...	...	...
	Kansas.....	1,395	848	192	195	116	30	12	1	1	...	...
	South Atlantic, total..	1,035	867	75	48	32	6	4	2	1	...	...
	Maryland.....	5	3	2	...	...	...	...	...	...	...	...
	Virginia.....	7	4	1	2	...	...	...	...	...	...	...
	West Virginia.....	1,008	851	72	42	30	6	4	2	1	...	...
	Georgia.....	2	2	...	...	...	...	...	...	...	...	...
	Florida.....	13	7	...	4	2	...	...	...	...	...	...
	East South Central, total.....	915	573	143	93	67	26	10	1	2	...	...
	Kentucky.....	635	416	104	65	36	11	2	...	1	...	...
	Tennessee.....	31	30	1	...	...	...	...	...	...	...	...
	Alabama.....	51	35	5	5	5	1	...	...	...	...	...
	Mississippi.....	198	92	33	23	26	14	8	1	1	...	...
	West South Central, total.....	9,347	4,992	1,367	1,284	1,100	371	148	41	22	17	5
	Arkansas.....	294	163	48	51	26	3	3	...	...	...	...
	Louisiana.....	1,026	434	129	157	165	75	40	10	9	7	...
	Oklahoma.....	2,486	1,492	348	332	225	53	24	7	3	2	...
	Texas.....	5,541	2,903	842	744	684	240	81	24	10	8	5
	Mountain, total.....	1,600	867	236	222	169	71	29	4	1	1	...
	Montana.....	232	155	30	27	11	7	2	...	...	...	...
	Idaho.....	4	3	...	1	...	...	...	...	...	...	...
	Wyoming.....	344	177	59	45	38	17	5	2	1	...	...
	Colorado.....	341	178	60	41	40	16	5	1	...	...	...
	New Mexico.....	556	288	72	88	72	22	12	1	...	1	...
	Arizona.....	23	20	1	2	...	...	...	...	...	...	...
	Utah.....	97	44	14	17	8	9	5	...	...	...	...
	Nevada.....	3	2	...	1	...	...	...	...	...	...	...
	Pacific, total.....	935	536	118	121	96	30	22	6	2	4	...
	Washington.....	9	4	2	1	2	...	...	...	...	...	...
	Oregon.....	10	9	...	1	...	...	...	...	...	...	...
	California.....	916	523	116	119	94	30	22	6	2	4	...
	Alaska.....	21	15	1	3	2	...	...	...	...	...	...

<sup>1</sup>Includes data for employees at separately reported central offices and related facilities which were not distributed by employment size.

<sup>2</sup>Figures for "250-499 employees" exclude and those for "100-249 employees" include data for 2 establishments in Industry 1382—Oil and Gas Field Exploration Services.

<sup>3</sup>Figures for "2,500 employees and over" exclude and those for "500-999 employees" include data for 2 establishments in Industry 1389—Oil and Gas Field Services, NEC.



# Crude Petroleum and Natural Gas

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Industry 1311, Crude Petroleum and Natural Gas. This industry represents establishments primarily engaged in operating oil and gas field properties. Such activities include exploration for crude petroleum and natural gas; drilling, completing, and equipping wells; and the operation of separators, emulsion breakers, desilting equipment; and all other activities incident to making oil and gas marketable up to the point of shipment from the producing property. This industry also includes production of oil through the mining and extraction of oil from oil shale and oil sands. Establishments primarily engaged in performing oil field services for operators on a contract, fee, or other basis are classified in Group 138, Oil and Gas Field Services.

Figures are also shown in several tables of this report for the two subindustries, Crude petroleum and Natural gas. These subindustries represent establishments primarily engaged in producing oil or developing oil properties or in producing gas or developing gas properties, respectively.

For census purposes, a crude petroleum or natural gas establishment was defined as covering all oil and gas field activities of an operating company in an entire State. Separate reports were required for each State in which a company operated.

Production of natural gas liquids is classified in Industry 1321, Natural Gas Liquids, and the statistics for this industry are shown in report MIC58(1)-13C. Statistics for establishments primarily engaged in performing oil and gas field services for others, classified in Group 138, Oil and Gas Field Services, are shown in report MIC58(1)-13D. Pipe line transportation of petroleum, gasoline, and other petroleum products is classified in Major Group 46, and pipe line transportation of natural gas in Industries 4922 and 4923; such activities were not covered in the 1958 censuses. Establishments primarily engaged in petroleum refining and in the production of lubricating oils and greases are classified in Major Group 29, Petroleum Refining and Related Industries, and the information reported for them is included in the Census of Manufactures publications.

Subindustry and Type of Operation Statistics.—Reports were obtained from the operators of oil and gas field properties, whether or not they owned the properties operated, but only one report was required for all oil and gas field properties operated in each State. These reports were classified in the Crude Petroleum and Natural Gas Subindustries, primarily on the basis of the product of principal value. In many cases, these reports covered the operation of both oil and gas wells. Moreover, the same well usually produces both oil and gas. Hence, the subindustry statistics provide only a rough indicator of the differences in operating requirements for production of crude petroleum and natural gas. In the 1939 and 1919 censuses, no attempt was made to distinguish Crude Petroleum and Natural Gas Subindustries, but this distinction was made for 1954. It should be noted that only 27 percent of all gas produced in the Crude Petroleum and Natural Gas Industry was produced in the Natural Gas Subindustry in 1958.

The total value of shipments and receipts of the Crude Petroleum and Natural Gas Industry in 1958 amounted to \$8,386 million. Of this total, the Crude Petroleum Subindustry accounted for \$7,810 million, including \$6,899 million for crude petroleum, field condensate, and drips shipped and \$854 million for natural gas shipped. The Natural Gas Subindustry accounted for \$576 million, including \$139 million for crude petroleum, field condensate, and drips shipped and \$433 million for natural gas shipped.

For many purposes, a more useful classification of reports is by type of operation as shown in tables 2A and 3B and included in certain other tables of this report. This classification segregates reports representing oil wells only, both oil and gas wells, and gas wells only. (In the census, a well was defined as an oil well if oil was the principal product as measured by value, and as a gas well if the value of gas shipped exceeded the value of oil shipped.) Such a classification was also provided in the 1954, 1939, 1919, and 1909 censuses. For 1958, the value of shipments and receipts of establishments operating oil wells only was \$1,647 million; both oil and gas wells, \$6,607 million; and gas wells only, \$131 million. Since the largest reports usually covered both oil and gas wells, this group accounted for 77 percent of the total crude petroleum, field condensate, and drips produced in the Crude Petroleum and Natural Gas Industry and for about 90 percent of total gas production.

Establishments in the Crude Petroleum and Natural Gas Industry not only operated producing oil and gas wells, but also reported that they drilled for their own account about 9,700 wells during 1958, and that they drilled on contract for others about 2,900 wells. Total receipts for services performed for others by establishments in the Crude Petroleum and Natural Gas Industry were \$59 million in 1958. Separate reports for operation of oil and gas field properties were sometimes furnished by contractors who also operated wells. But in most cases consolidated reports were received for establishments primarily performing contract services in a State, but also operating oil and gas field properties. Such reports were classified in the contract services industries. The total value of crude petroleum, field condensate, and drips shipped in 1958 by such industries was \$44 million and the value of natural gas shipped was nearly \$8 million.

Separate type of operation statistics are shown in tables 2A and 3B for establishments with and without drilling. For 1958, 61 percent of all producing establishments were engaged only in operating and maintaining wells, having no drilling activities either by their own employees or on contract by others. Such establishments, however, accounted for only 8 percent of total value of shipments, 16 percent of total persons engaged, 5 percent of total principal expenses, and about 2 percent of total capital expenditures.

Drilling Costs.—New capital expenditures in the Crude Petroleum and Natural Gas Industry in 1958 amounted to \$1,906 million. This represented 16 percent of the total new capital expenditures for all manufacturing and mineral industries combined, as compared with value added in mining by these industries which amounted to less than 5



percent of the total value added in manufacturing and mining. Nevertheless, expenditures for drilling wells exceeded this figure, amounting to \$2,425 million, of which \$2,371 million was by establishments classified in the Crude Petroleum and Natural Gas Industry. Operators customarily do not capitalize the cost of drilling dry holes, for which the 1958 expenditures were \$649 million. Because of the magnitude of these expenditures, and their continuing necessity to maintain a domestic oil and gas production industry, detailed data on them were obtained in the 1958 census, as they were for 1954 and 1939. Figures for the number, footage, and costs for drilling and equipping oil, gas, dry, and service wells were obtained separately by type of well.

Operators reporting in the 1958 census drilled and completed in the United States during the year, 46,954 wells, including 23,754 oil wells, 4,526 gas wells, 16,351 dry holes, and 2,323 service wells. The detailed statistics for footage and costs for drilling and completing these wells are shown in table 6D of this report. Table 6E shows separately data for offshore wells drilled, as well as production and employment at offshore operations.

Operators reported that 35,192, or 75 percent of all wells, were drilled on contract, and 11,762 were drilled by own employees, as compared with 73 percent drilled on contract reported by operators for 1954. In the report MIC58(1)-13D, Oil and Gas Field Services, it is shown that contractors reported 37,977 wells drilled on contract. It seems likely that operators classified as "wells drilled by own employees" some wells which were drilled to the producing sands by drilling contractors; then were completed for production either by the operator himself or by another contractor. Hence, it is probable that the figure reported by contractors is more accurate and also represents more complete coverage. It is estimated that about 80 percent of all wells were drilled primarily by contractors in 1958.

Size of Establishment.—Table 4 shows general statistics for establishments classified by size as measured by number of employees. This is the sum of statistics for individual States which represent approximately the size of oil and gas field operations of each company in that State, since, in general, each establishment report represents all operations of a company in the State. However, separate reports were usually furnished by parent and subsidiary companies. If both operated in the same State they would be included separately in this tabulation.

At the request of other government agencies and business groups certain tabulations have been made for this industry for 1958 and 1954 which classify operating companies in terms of size as measured by value of shipments. Although these statistics are not part of the Census Bureau basic tabulation plans, they are shown in table 12B because their previous release has indicated a general public interest in them. For this table, all reports for a parent company and its subsidiaries have been combined.

In both of these tables it must be emphasized that the measures are of size of company as an operator of oil and gas field properties, including properties operated by the company for the account of others. No information is available from the 1958 census to measure size of company as an owner of oil and gas properties.

County Statistics.—Each State report contained an inquiry requesting, by county, the quantity of crude petroleum and natural gas shipped and receipts for services performed for others in the year 1958, and employment on March 15. This represented an expansion of the county information

obtained for 1954 which covered only the quantity of crude petroleum shipped and employment. The county distribution was not completely reported. However, for both 1958 and 1954 the distributed figures accounted for about 98 percent of the total shipments reported. The county statistics for crude petroleum and natural gas shipped are shown in table 6C of this report.

In order to indicate the magnitude of the Crude Petroleum and Natural Gas Industry, by county, "Value of shipments and receipts" was estimated by county by multiplying the average unit values of crude petroleum and natural gas indicated by reported figures for each State by the reported county quantity figures and adding these estimated total values of oil and gas for each county to the reported receipts for services. Also, "Payroll" figures were allocated by county, primarily on the basis of the reported employment on March 15. These figures, together with employment, and counts of "County establishments" by 3 size classes are shown in table 2B.

Secondary Production.—The general statistics (employment, payrolls, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the production of secondary products, and in the performance of contract work for others. This fact should be taken into account in comparing industry statistics (tables 1-4 and 7-12) with product, drilling, and number of wells statistics (tables 6A-6F) showing shipments and related statistics for all industries of the primary products and related activities of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry or subindustry and also the value of primary products of the industry produced as secondary products by establishments classified in other industries. Drilling statistics and number of producing wells for all industries as shown in tables 6D and 6F may be compared with such statistics for the Crude Petroleum and Natural Gas Industry only as shown in tables 3A and 3B.

Coverage and Comparability With Bureau of Mines Statistics.—The Bureau of the Census attempts to cover all establishments with value of shipments or reported costs of \$500 or more. Establishments with no employees amounted to 15 percent of all establishments covered in the Crude Petroleum and Natural Gas Industry in the 1958 census, and establishments with less than 5 employees accounted for 72 percent of all establishments, the latter establishments representing 5.6 percent of the total value of shipments and receipts for the industry, 6.0 percent of all capital expenditures, and probably a higher percentage of total contract expenditures since many such establishments drilled dry holes for which the costs would not be capitalized. The large number of small operations and the prevalence of operation of properties or drilling for oil and gas under short term agreements and joint ventures in widely scattered areas make coverage of this industry by the usual census techniques particularly difficult.

For these reasons, a supplemental survey was designed to improve coverage. The mailing list for this survey was obtained by asking all drilling contractors with quarterly payroll of \$4,000 or more to provide the names and addresses of companies for whom they performed services. After eliminating, insofar as possible, the names of



previously surveyed operators, an abbreviated reporting form was sent to these additional names. About 4,000 such forms were mailed. It was found that a considerable number of the reports received in this survey were duplicates of reports already submitted under a slightly different name. Such reports were rejected from the tabulations. An exact measure of the contribution of this survey is not available at this time. However, this supplemental survey appears to have added 2 to 3 percent to coverage of shipments of oil and gas, probably a higher percentage to coverage of drilling activities and capital expenditures, and well over 10 percent to establishment coverage.

Even with this supplemental survey, the coverage of production, shipments, and operating costs for the Crude Petroleum and Natural Gas Industry in the 1958 census is probably slightly lower than in most other areas of the economic censuses. It should be noted, however, that the census is the only attempt by any federal or private organization to obtain complete coverage statistics directly from oil and gas field operators. All totals from other sources for such activities represent figures developed from a relatively small sample of reports, primarily from large companies, or from secondary source reports, such as for pipe line runs and productive wells connected to pipe lines.

Census figures have been compared with totals from various sources and table A shows a comparison of Census figures for number of wells, crude petroleum pro-

duced, and natural gas shipped or used, except for repressuring, with corresponding totals published by the Bureau of Mines, showing the figures by regions and selected States. The coverage in the 1958 and 1954 censuses was about the same. At the United States level the coverage percentages were identical for 1958 and 1954 for productive wells and natural gas shipped or used, except for repressuring. For 1958, the indicated coverage was one percent higher than in 1954 for oil and gas wells drilled and crude petroleum produced, but 4 percent lower for dry holes and service wells drilled. The indicated lowest coverage is in productive wells and appears to be accounted for almost entirely by stripper wells in old fields. Figures for oil and gas wells have been combined in this table since the distinction between such wells may have been made somewhat differently in statistics from other sources. For similar reasons, the figures for dry holes and service wells have been combined. The indicated lower coverage in this area is probably due to the inclusion as service wells by other sources of wells drilled for storage purposes; such wells were excluded from Census reports.

Table B shows a comparison of quantity and value figures for petroleum and natural gas as published by the Bureau of the Census and the Bureau of Mines. As indicated in the footnotes to this table, the differences between the two sets of figures are only partly due to coverage and partly to some differences in level of collection of the products data.

TABLE A  
CENSUS FIGURES FOR NUMBER OF WELLS, CRUDE PETROLEUM PRODUCED, AND NATURAL GAS SHIPPED OR USED AS  
PERCENTS OF TOTALS PUBLISHED BY THE BUREAU OF MINES: 1958

Division or State	Number of wells			Crude petroleum produced <sup>3</sup>	Natural gas shipped or used, except for repressuring <sup>4</sup>
	Productive at end of 1958 <sup>1</sup>	Drilled and completed during 1958 <sup>2</sup>			
		Oil and gas wells	Dry holes and service wells		
United States.....	91	98	93	97	97
Middle Atlantic.....	79	99	63	99	93
East North Central.....	81	104	94	93	91
Illinois.....	91	111	92	95	87
West North Central.....	102	115	99	92	96
Kansas.....	101	120	100	92	95
South Atlantic.....	93	99	94	96	87
East South Central.....	85	84	108	95	97
West South Central.....	91	95	91	97	96
Louisiana.....	94	98	87	100	95
Oklahoma.....	90	95	98	94	97
Texas.....	92	95	89	97	97
Mountain.....	98	98	93	97	97
Wyoming.....	102	101	84	94	99
New Mexico.....	100	98	91	97	93
Pacific.....	114	100	87	99	115
California.....	114	100	86	99	115

<sup>1</sup>Census figures represent wells producing in December plus wells shut in or idle during December.

<sup>2</sup>The totals for oil and gas wells and dry holes represent Oil and Gas Journal figures as reproduced by the Bureau of Mines. Figures for service wells drilled were taken directly from the Oil and Gas Journal.

<sup>3</sup>Census figures represent crude petroleum, field condensate, and drips shipped and crude petroleum produced and used at the same establishment.

<sup>4</sup>Represents natural gas produced less natural gas vented to air, burned in flairs, and other losses and less natural gas returned to underground formations for repressuring, pressure maintenance, or cycling.

## MINERAL INDUSTRIES—INDUSTRY STATISTICS

TABLE B  
QUANTITY AND VALUE OF MINERAL PRODUCTS AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU  
OF MINES FOR THE UNITED STATES: 1958  
(Excludes Alaska)

Product	Unit of measure	Bureau of the Census statistics			Bureau of Mines statistics		
		Production (Quantity)	Shipments including interplant transfers		Production (Quantity)	Shipments	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
Crude petroleum.....	1,000 barrels	<sup>1</sup> 2,319,162	2,317,565	6,934,158	} 2,448,987	(NA)	<sup>2</sup> 7,379,973
Field condensate and drips..	.....do.....	(NA)	48,647	148,036			
Natural gas.....	Million cu.ft.	12,152,585	10,134,236	1,294,271		<sup>3</sup> 11,030,248	<sup>3</sup> 1,317,492

<sup>1</sup>Represents crude petroleum shipped plus crude petroleum produced and used at the same establishment in lease operations.

<sup>2</sup>Represents value of production.

<sup>3</sup>Represents marketed production, "comprising gas sold or consumed by producers, including losses in transmission, amounts added to storage, and increases in gas in pipe lines." Census figures show 562,731 million cubic feet of gas produced and used in the same establishment in lease operations and net increase in underground storage of 12,368 million cubic feet; these figures are not included in the Census shipments figures shown.

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanations of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. 1)

Industry code, industry, and year	Oper- ating com- panies, number	Establish- ments, number		All employees		Production and development workers			Value added in mining  (\$1,000)	Selected expenses (\$1,000)			Value of ship- ments and receipts  (\$1,000)	Production of primary products		
		Total	With 20 or more em- ploy- ees	Number	Payroll  (\$1,000)	Number	Man- hours  (1,000)	Wages  (\$1,000)		Supplies and purchased fuels and elec- tricity <sup>1</sup>	Contract work	Pur- chased ma- chinery in- stalled		Crude pe- troleum, field con- densate, and drips <sup>2</sup>  (million barrels)	Natu- ral gas  (billion cu.ft.)	Capital expen- ditures  (\$1,000)
1311—CRUDE PETROLEUM AND NATURAL GAS: 1958, total.	9,835	11,993	1,092	180,040	1,042,186	102,445	200,930	497,571	7,339,922	1,053,885	1,449,571	486,021	8,385,906	2,353	12,085	1,943,493
Crude pe- troleum subin- dustry...	8,764	10,603	974	164,723	965,858	92,358	181,246	452,947	6,823,328	930,265	1,320,372	443,166	7,809,898	2,307	8,860	1,707,233
Natural gas sub- industry.	1,241	1,390	118	15,317	76,328	10,087	19,684	44,624	516,594	123,620	129,199	42,855	576,008	46	3,225	236,260
1954, total.	9,720	11,508	1,042	172,506	835,740	109,792	216,581	459,955	6,129,213	759,483	1,458,807	621,048	7,070,097	2,201	10,085	1,898,454
Crude pe- troleum subin- dustry...	8,565	10,101	(NA)	161,282	790,946	101,542	201,086	430,497	5,741,256	711,173	1,372,495	588,211	6,642,452	2,172	7,386	1,770,683
Natural gas sub- industry.	1,290	1,407	(NA)	11,224	44,794	8,250	15,495	29,458	387,957	48,310	86,312	32,837	427,645	29	2,699	127,771
1939.....	8,061	8,605	(NA)	136,051	234,899	105,505	190,674	155,700	1,071,989	104,931	199,034	(NA)	1,375,954	1,229	2,929	(NA)
1919 <sup>3</sup> .....	(NA)	9,970	(NA)	111,611	169,276	93,659	(NA)	135,397	613,744	247,947	70,102	(NA)	931,793	350	4,727	(NA)
1909 <sup>3</sup> .....	8,053	8,202	(NA)	43,990	35,553	37,603	(NA)	28,094	111,858	56,417	17,143	(NA)	185,418	172	4,432	(NA)
1902.....	31,736	(NA)	(NA)	27,558	21,319	522,438	(NA)	16,392	59,022	24,965	18,278	(NA)	102,265	89	4,206	(NA)
1889.....	(NA)	(NA)	(NA)	29,223	10,283	26,911	(NA)	8,748	15,318	22,690	(NA)	(NA)	38,008	35	4,552	(NA)
1880.....	(NA)	(NA)	(NA)	11,477	7,179	(NA)	(NA)	(NA)	17,697	63,714	73,730	(NA)	24,601	26	(NA)	(NA)
1870.....	(NA)	2,314	(NA)	4,488	3,995	(NA)	(NA)	(NA)	17,902	1,402	(NA)	(NA)	19,304	4	(NA)	(NA)
1860 <sup>8</sup> .....	(NA)	64	(NA)	922	339	(NA)	(NA)	(NA)	2,088	2,167	(NA)	(NA)	4,255	1	(NA)	(NA)

NA Not available.

<sup>1</sup>Includes the cost of gas purchased for gas lift and repressuring and the cost of products purchased for resale.

<sup>2</sup>For 1958 and 1954, represents shipments of crude petroleum, field condensate, and drips plus crude petroleum produced and used in lease operations for power and heat or other purposes.

<sup>3</sup>Includes statistics for the Natural Gas Liquids Industry. The value of natural gas liquids and field condensate and drips produced in 1919 was \$78,761 thousand, and for 1909, \$29 thousand.

<sup>4</sup>For 1919, 1909, and 1889, represents the sum of gas sold and gas used by producers and excludes gas wasted at well locations. For 1902, it is not clear whether the figure represents only gas sold or includes also gas used by producers.

<sup>5</sup>Figures for average employment were reduced to a 300-day basis for establishments which operated for a shorter period.

<sup>6</sup>Represents the cost of drive-pipe, casing, tubing, and torpedoes.

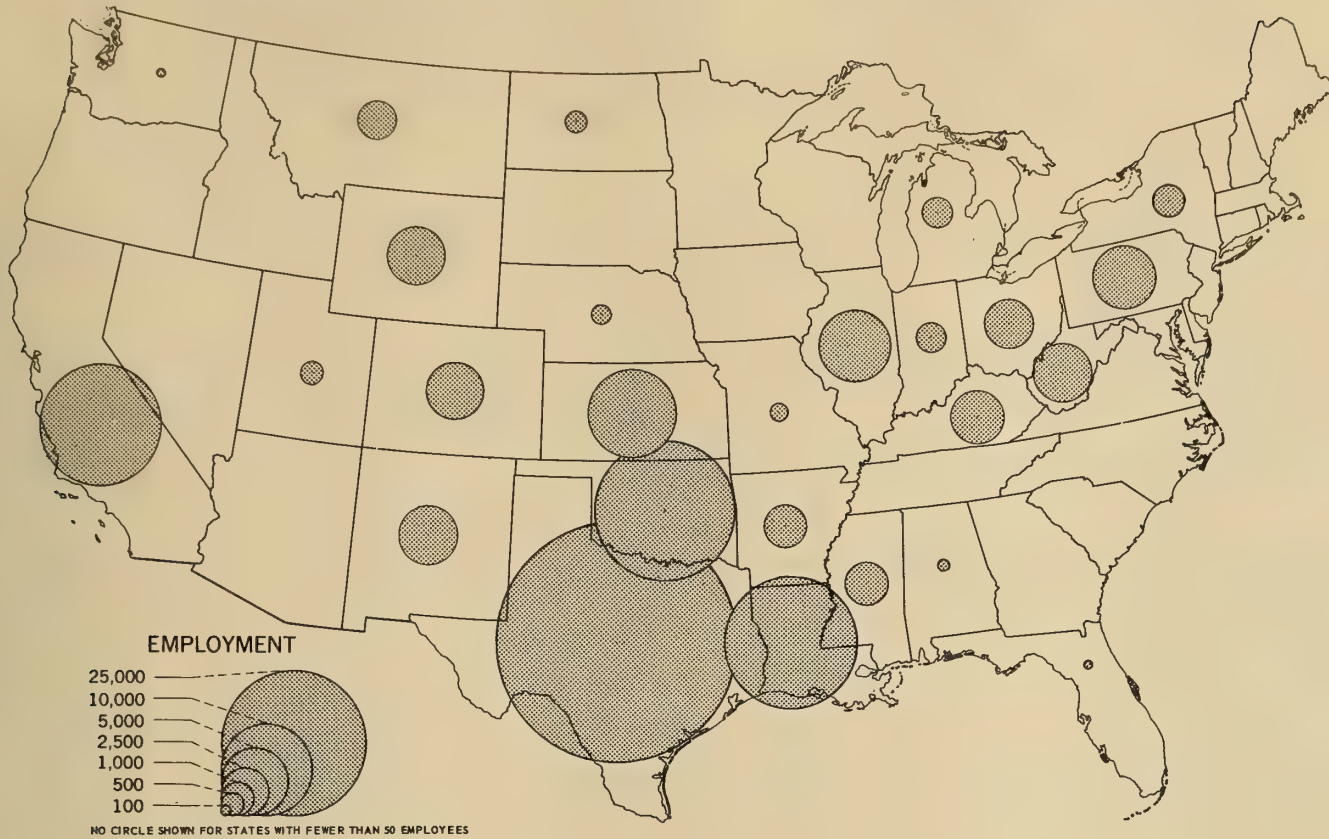
<sup>7</sup>Represents "cost of drilling". It was indicated in the 1880 report that drilling was usually done by contractors.

<sup>8</sup>These figures, except for quantity of crude petroleum, were reported as "oil, coal" and probably include some refining as well as the production of crude petroleum, or may represent primarily the recovery of oil from coal. The figure for quantity of crude petroleum produced is an estimate by the United States Geological Survey. That agency estimated the corresponding value of crude petroleum as \$4,800 thousand.



# CRUDE PETROLEUM AND NATURAL GAS

## Distribution of Employment by State:1958



## Employment and Production:1840-1958

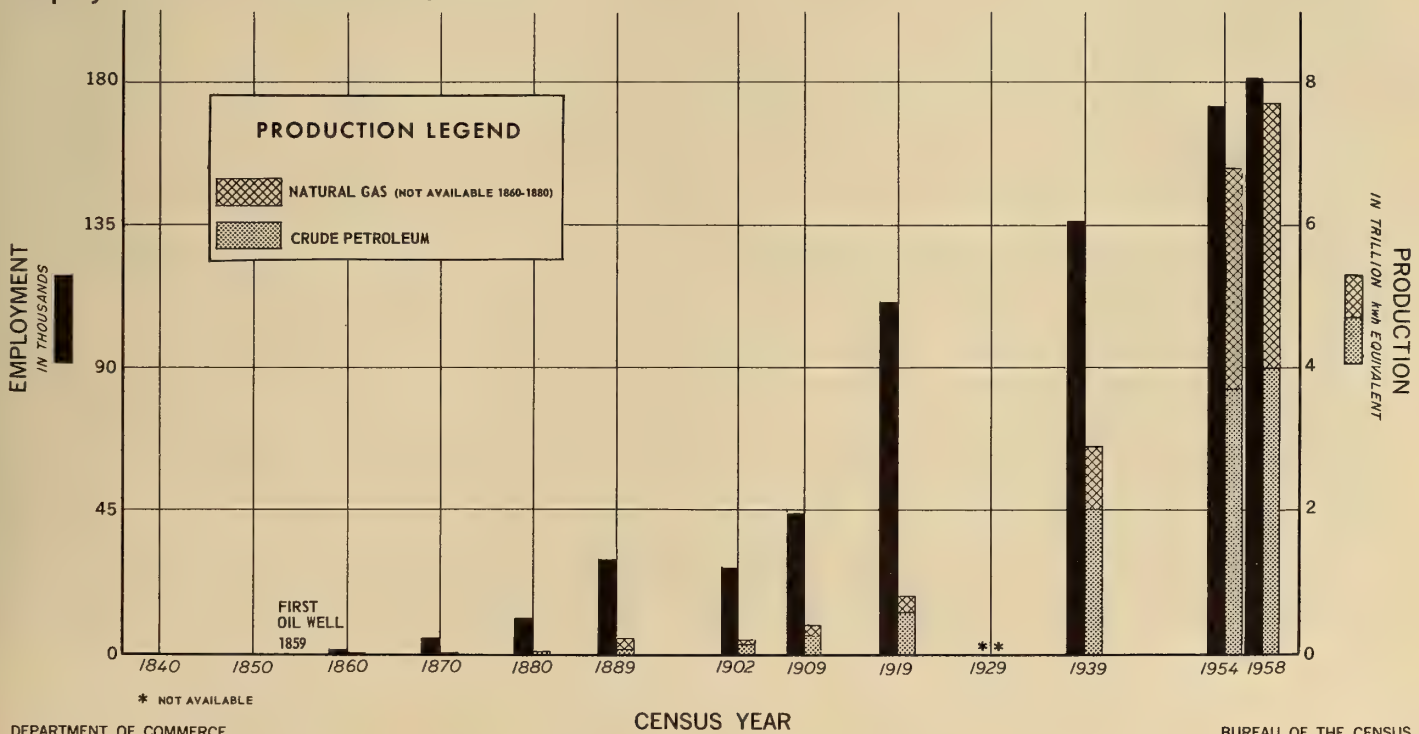


Table 2A.—General Statistics by Divisions, States, Alaska, and Type of Operation: 1958 and 1954

(For explanations of column captions see Introduction. For more detailed historical statistics for this industry by State, see table 2 of the corresponding chapter of 1954 Census of Mineral Industries, Vol. I)

Industry, division, State, and type of operation <sup>1</sup>	1958													1954	
	Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuel and electric- ity, and contract work	Cost of pur- chased machin- ery in- stalled	Value of shipments and receipts	Capital expendi- tures	All em- ployees, number	Value added in mining	
	Total	With 20 or more em- ploy- ees	Number	Payroll	Number	Man- hours	Wages								
				(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)	
1311—CRUDE PETROLEUM AND NATURAL GAS															
United States, total.....	11,993	1,092	180,040	1,042,186	102,445	200,930	497,571	7,339,922	2,503,456	486,021	8,385,906	1,943,493	172,506	6,129,21	
Crude petroleum subindustry...	10,603	974	164,723	965,858	92,358	181,246	452,947	6,823,328	2,250,637	443,166	7,809,898	1,707,233	161,282	5,741,256	
Natural gas subindustry.....	1,390	118	15,317	76,328	10,087	19,684	44,624	516,594	252,819	42,855	576,008	236,260	11,224	387,957	
Division, State, and Subindustry															
Middle Atlantic, total.....	870	34	5,191	22,689	3,940	7,449	14,739	45,906	22,720	2,579	57,222	13,983	7,707	55,139	
Crude petroleum subindustry...	668	20	3,624	16,138	2,644	4,960	9,662	27,655	8,356	626	33,902	2,735	5,444	20,314	
Natural gas subindustry.....	202	14	1,567	6,551	1,296	2,489	5,077	18,251	14,364	1,953	23,320	11,248	2,263	34,825	
New York, total.....	200	6	987	5,617	600	1,115	2,191	6,725	2,528	296	7,725	1,824	2,345	7,965	
Crude petroleum subindustry...	183	5	889	4,983	527	971	1,882	5,649	1,408	143	6,694	506	2,078	6,998	
Natural gas subindustry.....	17	1	98	634	73	144	309	1,076	1,120	153	1,031	1,318	267	967	
Pennsylvania, total.....	670	28	4,204	17,072	3,340	6,334	12,548	39,181	20,192	2,283	49,497	12,159	5,362	47,174	
Crude petroleum subindustry...	485	15	2,735	11,155	2,117	3,989	7,780	22,006	6,948	483	27,208	2,229	3,366	13,316	
Natural gas subindustry.....	185	13	1,469	5,917	1,223	2,345	4,768	17,175	13,244	1,800	22,289	9,930	1,996	33,858	
East North Central, total.....	1,388	98	11,318	54,896	8,043	14,569	32,985	256,394	77,215	17,635	308,553	42,691	12,380	207,760	
Crude petroleum subindustry...	1,281	96	10,685	52,058	7,567	13,709	30,968	251,417	73,160	16,923	301,937	39,563	11,659	200,438	
Natural gas subindustry.....	107	2	633	2,838	476	860	2,017	4,977	4,055	712	6,616	3,128	721	7,322	
Ohio, total.....	444	12	3,018	16,205	1,454	2,530	5,047	17,649	11,161	2,738	22,954	8,594	3,349	12,528	
Crude petroleum subindustry...	349	10	2,412	13,474	998	1,705	3,104	13,122	8,058	2,052	17,600	5,632	2,680	5,645	
Natural gas subindustry.....	95	2	606	2,731	456	825	1,943	4,527	3,103	686	5,354	2,962	669	6,883	
Indiana.....	266	12	1,179	5,347	787	1,299	2,737	25,323	8,873	1,843	31,361	4,678	1,238	19,951	
Illinois.....	547	62	6,089	28,181	4,977	9,070	21,312	195,517	48,714	11,980	229,662	26,549	6,428	150,753	
Michigan.....	131	12	1,032	5,163	825	1,670	3,889	17,905	8,467	1,074	24,576	2,870	1,365	24,528	
West North Central, total.....	1,088	118	10,958	53,703	7,789	15,019	33,658	384,190	159,785	36,032	487,331	92,676	10,406	296,266	
Crude petroleum subindustry...	1,050	111	10,430	50,946	7,448	14,353	31,960	347,666	152,482	35,011	448,407	86,752	9,813	267,380	
Natural gas subindustry.....	38	7	528	2,757	341	666	1,698	36,524	7,303	1,021	38,924	5,924	593	28,886	
North Dakota.....	53	5	558	3,422	316	654	1,759	22,352	33,659	6,087	41,106	20,992	671	( <sup>2</sup> )	
Nebraska.....	109	8	569	2,814	392	703	1,767	48,869	16,795	3,691	57,940	11,415	324	18,551	
Kansas.....	905	105	9,370	44,634	7,068	13,641	30,085	312,879	108,877	26,228	387,950	60,034	9,238	285,117	
South Atlantic, total.....	854	27	3,975	14,374	3,228	5,933	10,877	40,498	20,447	2,738	48,581	15,102	4,136	46,870	
Crude petroleum subindustry...	332	8	1,349	5,210	1,173	2,228	4,277	5,996	4,242	415	8,728	1,925	1,580	5,127	
Natural gas subindustry.....	522	19	2,626	9,164	2,055	3,705	6,600	34,502	16,205	2,323	39,853	13,177	2,556	41,743	
West Virginia, total.....	831	25	3,789	13,281	3,128	5,712	10,326	39,382	17,316	2,641	45,742	13,597	3,837	48,525	
Crude petroleum subindustry...	317	6	1,204	4,242	1,100	2,056	3,824	6,148	2,266	380	7,715	1,079	1,340	7,224	
Natural gas subindustry.....	514	19	2,585	9,039	2,028	3,656	6,502	33,234	15,050	2,261	38,027	12,518	2,497	41,301	
Florida.....	12	2	134	853	71	169	451	( <sup>2</sup> )	1,840	35	1,004	846	(NA)	(NA)	
East South Central, total.....	569	56	5,393	25,685	4,125	7,914	17,788	170,708	73,416	14,178	210,267	48,035	4,633	124,426	
Crude petroleum subindustry...	503	49	4,399	21,483	3,338	6,528	14,853	146,556	63,932	12,680	184,345	38,823	4,220	109,353	
Natural gas subindustry.....	66	7	994	4,202	787	1,386	2,935	24,152	9,484	1,498	25,922	9,212	413	15,073	
Kentucky, total.....	374	30	3,091	11,410	2,635	4,880	9,079	51,640	21,188	5,043	61,814	16,057	2,889	46,407	
Crude petroleum subindustry...	325	25	2,200	7,876	1,903	3,608	6,432	36,186	13,586	3,715	45,771	7,716	2,543	34,304	
Natural gas subindustry.....	49	5	891	3,534	732	1,272	2,647	15,454	7,602	1,328	16,043	8,341	346	12,103	
Alabama.....	42	4	222	1,355	198	474	1,182	11,357	7,280	1,810	16,417	4,030	104	1,181	
Mississippi, total.....	126	22	2,071	12,896	1,285	2,551	7,509	107,714	44,819	7,317	131,909	27,941	1,629	76,874	
Crude petroleum subindustry...	117	20	1,972	12,237	1,233	2,442	7,228	99,041	43,020	7,155	122,146	27,070	1,569	73,913	
Natural gas subindustry.....	9	2	99	659	52	109	281	8,673	1,799	162	9,763	871	60	2,961	
West South Central, total.....	5,625	576	112,039	668,127	58,320	116,523	293,901	4,654,605	1,647,604	320,259	5,302,044	1,320,424	103,867	3,856,800	
Crude petroleum subindustry...	5,286	522	105,332	629,514	54,659	108,742	274,745	4,344,305	1,514,724	290,198	4,953,034	1,196,193	100,424	3,646,660	
Natural gas subindustry.....	339	54	6,707	38,613	3,661	7,781	19,156	310,300	132,880	30,061	349,010	124,231	3,443	210,140	
Arkansas, total.....	210	22	1,905	9,636	1,229	2,348	5,476	70,497	18,737	3,845	81,986	11,093	1,709	61,194	
Crude petroleum subindustry...	205	20	1,803	9,221	1,164	2,253	5,250	68,115	16,139	3,692	78,747	9,199	1,651	60,398	
Natural gas subindustry.....	5	2	102	415	65	95	226	2,382	2,598	153	3,239	1,894	58	796	
Louisiana, total.....	529	80	20,532	130,908	11,973	25,227	71,210	1,181,307	539,998	87,219	1,321,899	486,625	16,956	738,888	
Crude petroleum subindustry...	445	61	18,044	115,327	10,462	21,712	62,538	1,042,579	485,262	71,477	1,163,021	436,297	15,773	683,386	
Natural gas subindustry.....	84	19	2,488	15,581	1,511	3,515	8,672	138,728	54,736	15,742	158,878	50,328	1,183	55,502	
Oklahoma, total.....	1,661	139	22,933	126,007	12,285	22,999	53,248	523,960	203,952	43,943	606,756	165,099	22,046	433,563	
Crude petroleum subindustry...	1,594	134	22,414	123,092	12,074	22,623	52,368	507,573	192,781	42,538	587,410	155,482	21,703	416,436	
Natural gas subindustry.....	67	5	519	2,915	211	376	880	16,387	11,171	1,405	19,346	9,617	343	17,127	
Texas, total.....	3,225	335	66,669	401,576	32,833	65,949	163,967	2,878,841	884,917	185,252	3,291,403	657,607	63,156	2,623,155	
Crude petroleum subindustry...	3,042	307	63,071	381,674	30,959	62,154	154,589	2,726,038	820,542	172,491	3,123,856	595,215	61,297	2,486,440	
Natural gas subindustry.....	183	28	3,598	19,902	1,874	3,795	9,378	152,803	64,375	12,761	167,547	62,392	1,859	136,711	

See footnotes at end of table.



Table 2A.—General Statistics by Divisions, States, Alaska, and Type of Operation: 1958 and 1954—Continued

Industry, division, State, and type of operation <sup>1</sup>	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuel and electricity, and contract work	Cost of purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1311—CRUDE PETROLEUM AND NATURAL GAS—CONTINUED														
Division, State, and Subindustry—Continued														
Mountain, total.....	1,001	114	14,501	89,686	7,121	14,172	38,005	841,883	320,698	63,441	951,170	274,852	12,167	529,746
Crude petroleum subindustry...	903	103	12,718	80,506	5,864	11,760	32,083	788,708	257,887	59,191	896,491	209,295	11,418	509,387
Natural gas subindustry.....	98	11	1,783	9,180	1,257	2,412	5,922	53,175	62,811	4,250	54,679	65,557	749	20,359
Montana.....	172	14	1,597	9,882	751	1,422	4,041	63,121	26,347	4,748	77,729	16,487	1,702	23,677
Wyoming, total.....	209	28	3,710	23,862	1,913	3,895	10,763	272,602	59,786	12,793	296,191	48,990	4,181	193,467
Crude petroleum subindustry...	201	26	3,584	23,011	1,833	3,730	10,278	264,833	49,200	11,627	286,906	38,754	4,181	193,467
Natural gas subindustry.....	8	2	126	851	80	165	485	7,769	10,586	1,166	9,285	10,236		
Colorado, total.....	222	34	3,665	24,344	1,141	2,267	6,290	132,435	40,269	15,611	155,256	33,059	2,340	107,149
Crude petroleum subindustry...	200	31	3,470	23,163	1,024	1,995	5,690	127,094	33,394	14,808	149,004	26,292	2,340	107,149
Natural gas subindustry.....	22	3	195	1,181	117	272	600	5,341	6,875	803	6,252	6,767		
New Mexico, total.....	314	30	4,605	25,743	2,779	5,496	13,975	314,428	142,679	22,494	347,388	132,213	3,249	209,219
Crude petroleum subindustry...	266	27	3,367	19,893	1,865	3,812	9,876	280,831	103,216	20,738	313,961	90,824	2,870	194,155
Natural gas subindustry.....	48	3	1,238	5,850	914	1,684	4,099	33,597	39,463	1,756	33,427	41,389	379	15,064
Utah.....	59	8	848	5,465	495	1,011	2,764	60,521	49,662	7,725	74,511	43,397	569	( <sup>2</sup> )
Pacific, total.....	598	69	16,665	113,026	9,879	19,351	55,618	945,738	181,571	29,159	1,020,738	135,730	17,210	1,012,206
Crude petroleum subindustry...	580	65	16,186	110,003	9,665	18,966	54,399	911,025	175,854	28,122	983,054	131,947	16,724	982,597
Natural gas subindustry.....	18	4	479	3,023	214	385	1,219	34,713	5,717	1,037	37,684	3,783	486	29,609
California, total.....	583	67	16,535	111,954	9,858	19,310	55,517	946,540	180,380	29,147	1,020,732	135,335	17,094	1,012,679
Crude petroleum subindustry...	565	63	16,056	108,931	9,644	18,925	54,298	911,827	174,663	28,110	983,048	131,552	17,094	1,012,679
Natural gas subindustry.....	18	4	479	3,023	214	385	1,219	34,713	5,717	1,037	37,684	3,783		
Alaska.....	17	1	81	922	40	79	296	(D)	6,852	865	(D)	4,141	(D)	(D)
Division, State, and Type of Operation														
United States, total.....	11,993	1,092	180,040	1,042,186	102,445	200,930	497,571	7,339,922	2,503,456	486,021	8,385,906	1,943,493	172,506	6,129,213
Producing operations, total...	11,277	1,077	178,215	1,031,799	101,651	199,466	494,061	7,366,804	2,457,809	483,801	8,385,906	1,922,508	170,190	6,194,802
With drilling.....	4,422	951	157,086	951,196	84,838	170,696	437,918	6,803,657	2,350,768	465,151	7,731,412	1,888,164	155,158	5,875,103
Without drilling.....	6,855	126	21,129	80,603	16,813	28,770	56,143	563,147	107,041	18,650	654,494	34,344	15,032	319,699
Oil well operations only, total	8,272	415	45,201	201,073	33,880	62,064	130,182	1,296,847	509,245	111,780	1,647,455	270,417	43,027	1,138,685
With drilling.....	2,823	338	29,889	145,018	21,215	40,675	88,710	893,719	430,888	98,022	1,175,596	247,033	32,372	915,423
Without drilling.....	5,449	77	15,312	56,055	12,665	21,389	41,472	403,128	78,357	13,758	471,859	23,384	10,655	223,262
Oil and gas well operations, total.....	2,040	623	127,377	806,157	63,835	130,130	348,318	5,961,741	1,884,309	363,028	6,607,291	1,601,787	120,773	4,889,186
With drilling.....	1,396	580	123,225	786,907	61,052	124,894	337,519	5,837,226	1,862,148	359,314	6,464,428	1,594,260	118,177	4,831,837
Without drilling.....	644	43	4,152	19,250	2,783	5,236	10,799	124,515	22,161	3,714	142,863	7,527	2,596	57,349
Gas well operations only, total	965	39	5,637	24,569	3,936	7,272	15,561	108,216	64,255	8,993	131,160	50,304	6,390	166,931
With drilling.....	203	33	3,972	19,271	2,571	5,127	11,689	72,712	57,732	7,815	91,388	46,871	4,609	127,843
Without drilling.....	762	6	1,665	5,298	1,365	2,145	3,872	35,504	6,523	1,178	39,772	3,433	1,781	39,088
Nonproducing operations.....	716	15	1,825	10,387	794	1,464	3,510	( <sup>2</sup> )	45,647	2,220	...	20,985	2,316	( <sup>2</sup> )
Middle Atlantic, total.....	870	34	5,191	22,689	3,940	7,449	14,739	45,906	22,720	2,579	57,222	13,983	7,707	55,139
Producing operations, total...	838	33	5,089	21,947	3,914	7,414	14,672	46,300	22,262	2,579	57,222	13,919	7,683	65,833
With drilling.....	130	20	3,122	15,691	2,217	4,537	9,557	30,217	18,388	2,164	37,873	12,896	(NA)	(NA)
Without drilling.....	708	13	1,967	6,256	1,697	2,877	5,115	16,083	3,874	415	19,349	1,023	(NA)	(NA)
Oil well operations only, total	589	13	2,187	8,424	1,800	3,272	6,145	17,414	4,746	419	21,614	965	3,335	17,452
With drilling.....	62	5	881	4,267	615	1,258	2,537	5,616	2,204	363	7,411	772	(NA)	(NA)
Without drilling.....	527	8	1,306	4,157	1,185	2,014	3,608	11,798	2,542	56	14,203	193	(NA)	(NA)
Oil and gas well operations, total.....	89	11	1,693	8,189	1,090	2,099	4,272	13,182	3,836	504	15,317	2,205	2,519	21,206
With drilling.....	25	6	1,354	7,052	835	1,653	3,481	11,388	3,411	233	13,139	1,893	(NA)	(NA)
Without drilling.....	64	5	339	1,137	255	446	791	1,794	425	271	2,178	312	(NA)	(NA)
Gas well operations only, total	160	9	1,209	5,334	1,024	2,043	4,255	15,704	13,680	1,656	20,291	10,749	1,829	27,175
With drilling.....	43	9	887	4,372	767	1,626	3,539	13,213	12,773	1,568	17,323	10,231	(NA)	(NA)
Without drilling.....	117	...	322	962	257	417	716	2,491	907	88	2,968	518	(NA)	(NA)
Nonproducing operations.....	32	1	102	742	26	35	67	( <sup>2</sup> )	458	...	...	64	24	( <sup>2</sup> )
New York.....	200	6	987	5,617	600	1,115	2,191	6,725	2,528	296	7,725	1,824	2,345	7,965
Producing operations, total...	190	6	977	5,532	598	1,113	2,185	6,761	2,492	296	7,725	1,824	2,337	7,978
With drilling.....	27	3	457	3,507	167	330	702	2,565	1,605	247	2,674	1,743	(NA)	(NA)
Without drilling.....	163	3	520	2,025	431	783	1,483	4,196	887	49	5,051	81	(NA)	(NA)

See footnotes at end of table.

## MINERAL INDUSTRIES—INDUSTRY STATISTICS

Table 2A.—General Statistics by Divisions, States, Alaska, and Type of operation: 1958 and 1954—Continued

Industry, division, State, and type of operation <sup>1</sup>	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuel and electricity, and contract work	Cost of purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1311—CRUDE PETROLEUM AND NATURAL GAS—Continued														
Division, State, and etc.—Con.														
Middle Atlantic—Continued														
New York—Continued														
Producing operations—Con.														
Oil well operations only, total	166	4	602	2,409	487	889	1,707	4,661	1,170	127	5,629	329	1,569	5,046
With drilling.....	17	1	133	639	94	183	382	946	344	90	1,118	262	(NA)	(NA)
Without drilling.....	149	3	469	1,770	393	706	1,325	3,715	826	37	4,511	67	(NA)	(NA)
Pennsylvania, total.....	670	28	4,204	17,072	3,340	6,334	12,548	39,181	20,192	2,283	49,497	12,159	5,362	47,174
Producing operations, total...	648	27	4,112	16,415	3,316	6,301	12,487	39,539	19,770	2,283	49,497	12,095	5,346	57,855
With drilling.....	103	17	2,665	12,184	2,050	4,207	8,855	27,652	16,783	1,917	35,199	11,153	(NA)	(NA)
Without drilling.....	545	10	1,447	4,231	1,266	2,094	3,632	11,887	2,987	366	14,298	942	(NA)	(NA)
Oil well operations only, total	423	9	1,585	6,015	1,313	2,383	4,438	12,753	3,576	292	15,985	636	1,766	12,406
With drilling.....	45	4	748	3,628	521	1,075	2,155	4,670	1,860	273	6,293	510	(NA)	(NA)
Without drilling.....	378	5	837	2,387	792	1,308	2,283	8,083	1,716	19	9,692	126	(NA)	(NA)
Nonproducing operations.....	22	1	92	657	24	33	61	( <sup>2</sup> )	422	...	...	64	16	( <sup>2</sup> )
East North Central, total.....	1,388	98	11,318	54,896	8,043	14,569	32,985	256,394	77,215	17,635	308,553	42,691	12,380	207,760
Producing operations, total...	1,326	98	11,271	54,649	8,015	14,534	32,919	257,484	75,906	17,549	308,553	42,386	12,299	208,384
With drilling.....	493	88	9,194	48,114	6,260	11,696	27,898	223,038	67,465	16,848	266,672	40,679	(NA)	(NA)
Without drilling.....	833	10	2,077	6,535	1,755	2,838	5,021	34,446	8,441	701	41,881	1,707	(NA)	(NA)
Oil well operations only, total	1,097	76	7,105	29,863	5,756	10,230	21,898	171,981	54,233	11,955	212,223	25,946	5,900	106,894
With drilling.....	403	68	5,405	24,534	4,309	7,888	17,797	141,657	47,126	11,373	175,492	24,664	(NA)	(NA)
Without drilling.....	694	8	1,700	5,329	1,447	2,342	4,101	30,324	7,107	582	36,731	1,282	(NA)	(NA)
Oil and gas well operations, total.....	167	20	3,657	22,331	1,892	3,637	9,330	81,990	19,191	4,967	92,107	14,041	5,804	95,109
With drilling.....	80	18	3,350	21,332	1,644	3,228	8,586	78,340	18,040	4,876	87,601	13,655	(NA)	(NA)
Without drilling.....	87	2	307	999	248	409	744	3,650	1,151	91	4,506	386	(NA)	(NA)
Gas well operations only, total	62	2	509	2,455	367	667	1,691	3,513	2,482	627	4,223	2,399	595	6,381
With drilling.....	10	2	439	2,248	307	580	1,515	3,041	2,299	599	3,579	2,360	(NA)	(NA)
Without drilling.....	52	...	70	207	60	87	176	472	183	28	644	39	(NA)	(NA)
Ohio.....	444	12	3,018	16,205	1,454	2,530	5,047	17,649	11,161	2,738	22,954	8,594	3,349	12,528
Producing operations, total...	425	12	3,000	16,123	1,443	2,520	5,024	17,872	10,916	2,735	22,954	8,569	3,303	12,538
With drilling.....	102	10	2,387	14,587	899	1,727	3,737	13,628	9,471	2,628	17,472	8,255	(NA)	(NA)
Without drilling.....	323	2	613	1,536	544	793	1,287	4,244	1,445	107	5,482	314	(NA)	(NA)
Oil well operations only, total.....	244	3	614	1,904	559	895	1,631	6,226	3,229	816	7,417	2,854	583	2,679
With drilling.....	41	3	320	1,322	279	526	1,088	4,579	2,636	798	5,207	2,806	(NA)	(NA)
Without drilling.....	203	...	294	582	280	369	543	1,647	593	18	2,210	48	(NA)	(NA)
Oil and gas well operations.....	128	7	1,892	11,821	527	974	1,738	8,157	5,425	1,298	11,562	3,318	2,194	3,946
Gas well operations only.....	53	2	494	2,398	357	651	1,655	3,489	2,262	621	3,975	2,397	526	5,913
Indiana.....	266	12	1,179	5,347	787	1,299	2,737	25,323	8,873	1,843	31,361	4,678	1,238	19,951
Producing operations, total...	252	12	1,169	5,303	780	1,286	2,715	25,419	8,761	1,813	31,361	4,632	1,222	20,104
With drilling.....	92	10	796	3,830	508	885	1,905	18,705	7,431	1,745	23,340	4,541	(NA)	(NA)
Without drilling.....	160	2	373	1,473	272	401	810	6,714	1,330	68	8,021	91	(NA)	(NA)
Oil well operations only, total	242	12	1,135	5,118	768	1,269	2,684	25,256	8,621	1,795	31,040	4,632	1,111	17,513
With drilling.....	90	10	772	3,670	505	881	1,896	18,641	7,359	1,727	23,186	4,541	(NA)	(NA)
Without drilling.....	152	2	363	1,448	263	388	788	6,615	1,262	68	7,854	91	(NA)	(NA)
Illinois.....	547	62	6,089	28,181	4,977	9,070	21,312	195,517	48,714	11,980	229,662	26,549	6,428	150,753
Producing operations, total...	523	62	6,073	28,067	4,970	9,062	21,298	196,099	48,024	11,927	229,662	26,388	6,416	151,053
With drilling.....	254	58	5,294	25,869	4,288	7,920	19,414	178,552	44,246	11,737	208,791	25,744	(NA)	(NA)
Without drilling.....	269	4	779	2,198	682	1,142	1,884	17,547	3,778	190	20,871	644	(NA)	(NA)
Oil well operations only, total	508	55	4,835	20,575	4,004	7,251	15,840	131,052	38,634	8,635	161,186	17,135	3,695	76,617
With drilling.....	243	51	4,066	18,410	3,332	6,123	13,989	114,451	35,020	8,445	141,425	16,491	(NA)	(NA)
Without drilling.....	265	4	769	2,165	672	1,128	1,851	16,601	3,614	190	19,761	644	(NA)	(NA)
Oil and gas well operations.....	15	7	1,238	7,492	966	1,811	5,458	65,047	9,390	3,292	68,476	9,253	2,721	74,436
With drilling.....	11	7	1,228	7,459	956	1,797	5,425	64,101	9,226	3,292	67,366	9,253	(NA)	(NA)
Michigan.....	131	12	1,032	5,163	825	1,670	3,889	17,905	8,467	1,074	24,576	2,870	1,365	24,528
Producing operations, total...	126	12	1,029	5,156	822	1,666	3,882	18,094	8,205	1,074	24,576	2,797	1,358	24,689
With drilling.....	45	10	717	3,828	565	1,164	2,842	12,153	6,317	738	17,069	2,139	(NA)	(NA)
Without drilling.....	81	2	312	1,328	257	502	1,040	5,941	1,888	336	7,507	658	(NA)	(NA)

See footnotes at end of table.



Table 2A.—General Statistics by Divisions, States, Alaska, and Type of Operation: 1958 and 1954—Continued

Industry, division, State, and type of operation <sup>1</sup>	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuel and electricity, and contract work	Cost of purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1311—CRUDE PETROLEUM AND NATURAL GAS—Continued														
Division, State, and etc.—Con.														
East North Central—Continued														
Michigan—Continued														
Producing operations—Con.														
Oil well operations only, total	103	6	521	2,266	425	815	1,743	9,447	3,749	709	12,580	1,325	511	10,085
With drilling.....	29	4	247	1,132	193	358	824	3,986	2,111	403	5,674	826	(NA)	(NA)
Without drilling.....	74	2	274	1,134	232	457	919	5,461	1,638	306	6,906	499	(NA)	(NA)
Oil and gas well operations	19	6	496	2,840	390	839	2,110	8,640	4,276	359	11,805	1,470	808	14,417
West North Central, total.....	1,088	118	10,958	53,703	7,789	15,019	33,658	384,190	159,785	36,032	487,331	92,676	10,406	296,266
Producing operations, total...	1,010	117	10,859	53,159	7,734	14,925	33,440	386,544	156,349	35,893	487,331	91,455	10,025	300,830
With drilling.....	505	111	9,457	48,088	6,580	12,956	29,773	344,645	146,983	34,514	437,911	88,231	(NA)	(NA)
Without drilling.....	505	6	1,402	5,071	1,154	1,969	3,667	41,899	9,366	1,379	49,420	3,224	(NA)	(NA)
Oil well operations only, total	837	48	4,305	17,139	3,460	6,362	12,337	126,826	81,024	18,330	180,439	45,741	4,293	75,276
With drilling.....	380	44	3,197	13,600	2,501	4,790	9,483	101,503	73,776	17,201	149,454	43,026	(NA)	(NA)
Without drilling.....	457	4	1,108	3,539	959	1,572	2,854	25,323	7,248	1,129	30,985	2,715	(NA)	(NA)
Oil and gas well operations, total.....	153	67	6,446	35,515	4,200	8,424	20,801	244,101	74,273	17,364	290,681	45,057	5,449	208,663
With drilling.....	119	65	6,194	34,130	4,036	8,082	20,084	231,930	72,252	17,188	276,743	44,627	(NA)	(NA)
Without drilling.....	34	2	252	1,385	164	342	717	12,171	2,021	176	13,938	430	(NA)	(NA)
Gas well operations only....	20	2	108	505	74	139	302	15,617	1,052	199	16,211	657	283	16,891
With drilling.....	6	2	66	358	43	84	206	11,212	955	125	11,714	578	(NA)	(NA)
Nonproducing operations.....	78	1	99	544	55	94	218	( <sup>2</sup> )	3,436	139	...	1,221	381	( <sup>2</sup> )
North Dakota.....	53	5	558	3,422	316	654	1,759	22,352	33,659	6,087	41,106	20,992	671	( <sup>2</sup> )
Producing operations, total...	41	5	529	3,228	299	608	1,646	22,941	32,373	6,060	41,106	20,268	(NA)	(NA)
With drilling.....	26	5	478	2,939	281	570	1,562	21,249	31,079	5,407	39,234	18,501	(NA)	(NA)
Without drilling.....	15	...	51	289	18	38	84	1,692	1,294	653	1,872	1,767	(NA)	(NA)
Nebraska.....	109	8	569	2,814	392	703	1,767	48,869	16,795	3,691	57,940	11,415	324	18,551
Producing operations, total...	88	7	543	2,631	390	700	1,757	49,776	15,839	3,666	57,940	11,341	288	18,727
With drilling.....	50	7	481	2,425	333	610	1,565	42,077	15,108	3,650	49,507	11,328	(NA)	(NA)
Without drilling.....	38	...	62	206	57	90	192	7,699	731	16	8,433	13	(NA)	(NA)
Oil well operations only....	80	5	321	1,329	272	464	1,041	28,569	12,400	2,862	35,774	8,057	155	9,145
Kansas.....	905	105	9,370	44,634	7,068	13,641	30,085	312,879	108,877	26,228	387,950	60,034	9,238	285,117
Producing operations only, total	872	105	9,329	44,478	7,035	13,601	30,001	313,635	107,967	26,146	387,950	59,798	9,193	285,853
With drilling.....	426	99	8,068	40,161	5,960	11,765	26,619	281,306	100,667	25,436	349,055	58,354	(NA)	(NA)
Without drilling.....	446	6	1,261	4,317	1,075	1,836	3,382	32,329	7,300	710	38,895	1,444	(NA)	(NA)
Oil well operations, total..	710	38	3,448	12,550	2,882	5,277	9,618	75,241	36,262	9,389	103,507	17,385	3,624	69,168
With drilling.....	307	34	2,437	9,417	1,983	3,800	6,957	54,404	30,782	8,927	77,663	16,450	(NA)	(NA)
Without drilling.....	403	4	1,011	3,133	899	1,477	2,661	20,837	5,480	462	25,844	935	(NA)	(NA)
Missouri and South Dakota <sup>3</sup> .....	21	...	461	2,833	13	21	47	90	454	26	335	235	145	( <sup>2</sup> )
Producing operations <sup>3</sup> .....	9	...	458	2,822	10	16	36	192	170	21	335	48	(NA)	(NA)
With drilling <sup>3</sup> .....	3	...	430	2,563	6	11	27	13	129	21	115	48	(NA)	(NA)
South Atlantic, total.....	854	27	3,975	14,374	3,228	5,933	10,877	40,498	20,447	2,738	48,581	15,102	4,136	46,870
Producing operations, total...	817	26	3,847	13,679	3,142	5,753	10,431	41,803	18,881	2,705	48,581	14,808	3,975	49,505
With drilling.....	96	21	2,409	10,263	1,833	3,765	7,340	32,148	16,910	2,301	37,025	14,334	(NA)	(NA)
Without drilling.....	721	5	1,438	3,416	1,309	1,988	3,091	9,655	1,971	404	11,556	474	(NA)	(NA)
Oil well operations only, total	237	4	463	1,293	414	614	1,049	3,049	1,348	161	3,687	871	494	743
With drilling.....	13	3	130	585	93	176	362	1,752	1,035	133	2,082	838	(NA)	(NA)
Without drilling.....	224	1	333	708	321	438	687	1,297	313	28	1,605	33	(NA)	(NA)
Oil and gas well operations, total.....	145	15	1,803	6,895	1,568	3,129	5,791	22,584	8,346	1,200	24,780	7,350	1,927	22,577
With drilling.....	37	12	1,349	5,655	1,168	2,447	4,711	18,393	7,678	862	19,942	6,991	(NA)	(NA)
Without drilling.....	108	3	454	1,240	400	682	1,080	4,191	668	338	4,838	359	(NA)	(NA)
Gas well operations only, total.....	435	7	1,581	5,491	1,160	2,010	3,591	16,170	9,187	1,344	20,114	6,587	1,554	26,185
With drilling.....	46	6	930	4,023	572	1,142	2,267	12,003	8,197	1,306	15,001	6,505	(NA)	(NA)
Without drilling.....	389	1	651	1,468	588	868	1,324	4,167	990	38	5,113	82	(NA)	(NA)
Nonproducing operations.....	37	1	128	695	86	180	446	( <sup>2</sup> )	1,566	33	...	294	161	( <sup>2</sup> )
West Virginia.....	831	25	3,789	13,281	3,128	5,712	10,326	39,382	17,316	2,641	45,742	13,597	3,837	48,525
Producing operations, total...	808	25	3,767	13,242	3,108	5,691	10,295	39,474	17,146	2,639	45,742	13,517	3,808	48,615
With drilling.....	91	20	2,344	9,850	1,804	3,712	7,220	29,888	15,186	2,236	34,263	13,047	(NA)	(NA)
Without drilling.....	717	5	1,423	3,392	1,304	1,979	3,075	9,586	1,960	403	11,479	470	(NA)	(NA)
Gas well operations only, total	428	7	1,540	5,366	1,133	1,961	3,493	14,767	8,188	1,284	18,288	5,951	1,497	25,405
With drilling.....	42	6	903	3,921	549	1,100	2,184	10,660	7,209	1,247	13,243	5,873	(NA)	(NA)
Without drilling.....	386	1	637	1,445	584	861	1,309	4,107	979	37	5,045	78	(NA)	(NA)

See footnotes at end of table.

Table 2A.—General Statistics by Divisions, States, Alaska, and Type of Operation: 1958 and 1954—Continued

Industry, division, State, and type of operation <sup>1</sup>	1958											1954		
	Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuel and electric- ity, and contract work	Cost of pur- chased machin- ery in- stalled	Value of shipments and receipts	Capital expendi- tures	All em- ployees, number	Value added in mining
	Total	With 20 or more em- ploy- ees	Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)							
1311—CRUDE PETROLEUM AND NATURAL GAS—Continued														
Division, State, and etc.—Con.														
South Atlantic—Continued														
Maryland, Virginia, Georgia and Florida, total <sup>4</sup> .....	23	2	186	1,093	100	221	551	1,116	3,131	97	2,839	1,505	299	( <sup>2</sup> )
Producing operations, total...	9	1	80	437	34	62	136	2,329	1,735	66	2,839	1,291	167	890
With drilling.....	5	1	65	413	29	53	120	2,260	1,724	65	2,762	1,287	(NA)	(NA)
Nonproducing operations.....	14	1	106	656	66	159	415	( <sup>2</sup> )	1,396	31	...	214	132	( <sup>2</sup> )
East South Central, total.....	569	56	5,393	25,685	4,125	7,914	17,788	170,708	73,416	14,178	210,267	48,035	4,633	124,426
Producing operations, total...	492	56	5,313	25,345	4,080	7,830	17,634	172,028	71,149	14,160	210,267	47,070	4,458	127,728
With drilling.....	213	49	4,437	22,142	3,332	6,485	15,066	140,048	66,268	13,648	173,487	46,477	(NA)	(NA)
Without drilling.....	279	7	876	3,203	748	1,345	2,568	31,980	4,881	512	36,780	593	(NA)	(NA)
Oil well operations only, total	398	34	2,581	10,710	2,172	4,237	8,575	66,528	30,665	7,101	87,458	16,836	2,031	44,133
With drilling.....	171	27	1,825	7,855	1,525	3,045	6,264	39,691	26,234	6,659	56,254	16,330	(NA)	(NA)
Without drilling.....	227	7	756	2,855	647	1,192	2,311	26,837	4,431	442	31,204	506	(NA)	(NA)
Oil and gas well operations	47	20	2,512	13,747	1,743	3,336	8,510	95,399	36,210	5,861	112,214	25,256	2,189	73,295
With drilling.....	35	20	2,467	13,535	1,713	3,280	8,385	92,914	35,926	5,806	109,457	25,189	(NA)	(NA)
Gas well operations only, total	47	2	220	888	165	257	549	10,101	4,274	1,198	10,595	4,978	238	10,300
With drilling.....	7	2	145	752	94	160	417	7,443	4,108	1,183	7,776	4,958	(NA)	(NA)
Without drilling.....	40	...	75	136	71	97	132	2,658	166	15	2,819	20	(NA)	(NA)
Nonproducing operations.....	77	...	80	340	45	84	154	( <sup>2</sup> )	2,267	18	...	965	175	( <sup>2</sup> )
Kentucky.....	374	30	3,091	11,410	2,635	4,880	9,079	51,640	21,188	5,043	61,814	16,057	2,889	46,407
Producing operations, total...	355	30	3,046	11,249	2,595	4,805	8,943	51,801	21,008	5,027	61,814	16,022	2,859	46,566
With drilling.....	154	27	2,519	9,815	2,109	3,997	7,680	44,242	19,675	4,934	53,025	15,826	(NA)	(NA)
Without drilling.....	201	3	527	1,434	486	808	1,263	7,559	1,333	93	8,789	196	(NA)	(NA)
Oil well operations only, total	294	23	1,834	6,501	1,578	2,943	5,272	31,303	12,090	3,053	40,252	6,194	1,500	24,720
With drilling.....	132	20	1,384	5,201	1,166	2,238	4,141	24,481	10,872	2,967	32,295	6,025	(NA)	(NA)
Without drilling.....	162	3	450	1,300	412	705	1,131	6,822	1,218	86	7,957	169	(NA)	(NA)
Oil and gas well operations	23	6	1,047	4,202	879	1,658	3,266	16,530	5,385	855	17,314	5,456	1,176	12,523
Gas well operations only....	38	1	165	546	138	204	405	3,968	3,533	1,119	4,248	4,372	183	9,323
Alabama.....	42	4	222	1,355	198	474	1,182	11,357	7,280	1,810	16,417	4,030	104	1,181
Producing operations, total...	18	4	214	1,285	196	469	1,167	12,092	6,533	1,810	16,417	4,018	87	2,250
With drilling.....	8	3	153	937	140	358	851	4,863	5,578	1,704	8,187	3,958	(NA)	(NA)
Without drilling.....	10	1	61	348	56	111	316	7,229	955	106	8,230	60	(NA)	(NA)
Oil well operations only, total	17	4	207	1,250	196	469	1,167	12,090	6,533	1,810	16,415	4,018	87	2,250
With drilling.....	8	3	146	902	140	358	851	4,863	5,578	1,704	8,187	3,958	(NA)	(NA)
Without drilling.....	9	1	61	348	56	111	316	7,227	955	106	8,228	60	(NA)	(NA)
Mississippi.....	126	22	2,071	12,896	1,285	2,551	7,509	107,714	44,819	7,317	131,909	27,941	1,629	76,874
Producing operations, total...	113	22	2,046	12,793	1,283	2,548	7,508	108,085	43,539	7,315	131,909	27,030	1,503	78,887
With drilling.....	50	19	1,765	11,390	1,083	2,130	6,535	90,942	41,015	7,010	112,274	26,693	(NA)	(NA)
Without drilling.....	63	3	281	1,403	200	418	973	17,143	2,524	305	19,635	337	(NA)	(NA)
Oil well operations only, total	83	7	537	2,950	395	822	2,127	23,124	12,040	2,238	30,778	6,624	442	17,147
With drilling.....	30	4	295	1,752	219	449	1,272	10,346	9,784	1,988	15,771	6,347	(NA)	(NA)
Without drilling.....	53	3	242	1,198	176	373	855	12,778	2,256	250	15,007	277	(NA)	(NA)
Oil and gas well operations	24	14	1,458	9,510	864	1,678	5,244	78,869	30,825	5,006	94,900	19,800	1,061	61,740
Gas well operations only....	6	1	51	333	24	48	137	6,092	674	71	6,231	606		
West South Central, total.....	5,625	576	112,039	668,127	58,320	116,523	293,901	4,654,605	1,647,604	320,259	5,302,044	1,320,424	103,867	3,856,800
Producing operations, total...	5,425	573	111,645	666,043	58,044	116,020	292,639	4,664,108	1,633,897	319,101	5,302,044	1,315,062	103,509	3,866,015
With drilling.....	2,447	511	101,694	627,796	50,134	102,342	265,932	4,387,880	1,579,281	312,978	4,979,332	1,300,807	(NA)	(NA)
Without drilling.....	2,978	62	9,951	38,247	7,910	13,678	26,707	276,228	54,616	6,123	322,712	14,255	(NA)	(NA)
Oil well operations only, total	4,069	168	19,789	81,752	14,754	26,797	52,439	428,543	207,183	46,355	583,069	99,012	17,817	427,120
With drilling.....	1,486	135	12,342	55,450	8,536	16,344	32,620	255,399	170,378	43,074	377,889	90,962	(NA)	(NA)
Without drilling.....	2,583	33	7,447	26,302	6,218	10,453	19,819	173,144	36,805	3,281	205,180	8,050	(NA)	(NA)
Oil and gas well operations, total.....	1,176	393	90,227	576,577	42,417	87,587	236,453	4,203,539	1,403,715	269,601	4,674,833	1,202,022	84,527	3,377,772
With drilling.....	896	368	88,130	566,513	41,015	84,861	230,691	4,119,599	1,389,822	267,603	4,578,694	1,198,330	(NA)	(NA)
Without drilling.....	280	25	2,097	10,064	1,402	2,726	5,762	83,940	13,893	1,998	96,139	3,692	(NA)	(NA)
Gas well operations only, total	180	12	1,629	7,714	873	1,636	3,747	32,026	22,999	3,145	44,142	14,028	1,165	61,123
With drilling.....	65	8	1,222	5,833	583	1,137	2,621	12,882	19,081	2,301	22,749	11,515	(NA)	(NA)
Without drilling.....	115	4	407	1,881	290	499	1,126	19,144	3,918	844	21,393	2,513	(NA)	(NA)
Nonproducing operations.....	200	3	394	2,084	276	503	1,262	( <sup>2</sup> )	13,707	1,158	...	5,362	358	( <sup>2</sup> )

See footnotes at end of table.



## CRUDE PETROLEUM AND NATURAL GAS

13B-11

Table 2A.—General Statistics by Divisions, States, Alaska, and Type of Operation: 1958 and 1954—Continued

Industry, division, State, and type of operation <sup>1</sup>	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuel and electric-ity, and contract work	Cost of pur-chased mechan-ery in-stalled	Value of shipments and receipts	Capital ex-pendit-ures	All em-ployees, number	Value added in mining
	Total	With 20 or more em-ploy-ees	Number	Payroll	Number	Man-hours	Wages							
				(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
1311—CRUDE PETROLEUM AND NATURAL GAS—Continued														
Division, State, and etc.—Con.														
West South Central—Continued														
Arkansas.....	210	22	1,905	9,636	1,229	2,348	5,476	70,497	18,737	3,845	81,986	11,093	1,709	61,194
Producing operations, total...	201	22	1,881	9,448	1,229	2,348	5,476	70,845	18,418	3,814	81,986	11,091	1,681	61,808
With drilling.....	90	19	1,499	7,878	902	1,766	4,212	55,276	15,888	3,603	64,096	10,671	(NA)	(NA)
Without drilling.....	111	3	382	1,570	327	582	1,264	15,569	2,530	211	17,890	420	(NA)	(NA)
Oil well operations only, total	177	11	922	3,926	774	1,444	3,210	28,345	7,756	1,851	34,047	3,905	1,031	36,747
With drilling.....	70	8	588	2,577	484	931	2,108	14,728	5,466	1,640	18,349	3,485	(NA)	(NA)
Without drilling.....	107	3	334	1,349	290	513	1,102	13,617	2,290	211	15,698	420	(NA)	(NA)
Oil and gas well operations	19	9	857	5,107	390	809	2,040	40,118	8,064	1,810	44,700	5,292	608	24,577
With drilling.....	15	9	809	4,886	353	740	1,878	38,166	7,824	1,810	42,508	5,292	(NA)	(NA)
Gas well operations only (with drilling).....	5	2	102	415	65	95	226	2,382	2,598	153	3,239	1,894	42	484
Louisiana, total.....	529	80	20,532	130,908	11,973	25,227	71,210	1,181,307	539,998	87,219	1,321,899	486,625	16,956	738,888
Producing operations, total...	492	78	20,352	129,834	11,847	24,980	70,547	1,185,306	533,112	86,941	1,321,899	483,460	16,893	741,164
With drilling.....	239	69	19,225	124,669	10,961	23,373	66,955	1,139,534	523,022	86,093	1,267,755	480,894	(NA)	(NA)
Without drilling.....	253	9	1,127	5,165	886	1,607	3,592	45,772	10,090	848	54,144	2,566	(NA)	(NA)
Oil well operations only, total	288	9	1,119	4,345	946	1,635	3,397	22,563	14,763	2,590	33,419	6,497	1,144	27,348
With drilling.....	101	5	519	2,025	434	758	1,538	7,914	11,456	2,349	15,937	5,782	(NA)	(NA)
Without drilling.....	187	4	600	2,320	512	877	1,859	14,649	3,307	241	17,482	715	(NA)	(NA)
Oil and gas well operations, total.....	160	65	18,976	124,165	10,713	22,963	66,246	1,152,810	512,998	83,591	1,276,188	473,211	15,431	704,191
With drilling.....	127	62	18,623	122,181	10,473	22,478	65,083	1,127,457	508,547	83,346	1,246,786	472,564	(NA)	(NA)
Without drilling.....	33	3	353	1,984	240	485	1,163	25,353	4,451	245	29,402	647	(NA)	(NA)
Gas well operations only, total.....	44	4	257	1,324	188	382	904	9,933	5,351	760	12,292	3,752	318	9,625
With drilling.....	11	2	83	463	54	137	334	4,163	3,019	398	5,032	2,548	(NA)	(NA)
Without drilling.....	33	2	174	861	134	245	570	5,770	2,332	362	7,260	1,204	(NA)	(NA)
Nonproducing operations.....	37	2	180	1,074	126	247	663	( <sup>2</sup> )	6,886	278	...	3,165	63	( <sup>2</sup> )
Oklahoma, total.....	1,661	139	22,933	126,007	12,285	22,999	53,248	523,960	203,952	43,943	606,756	165,099	22,046	433,563
Producing operations, total...	1,625	139	22,883	125,777	12,249	22,941	53,104	524,537	203,121	43,879	606,756	164,781	21,989	434,906
With drilling.....	670	124	19,996	116,173	9,864	19,111	46,185	471,923	189,984	41,662	542,616	160,953	(NA)	(NA)
Without drilling.....	955	15	2,887	9,604	2,385	3,830	6,919	52,614	13,137	2,217	64,140	3,828	(NA)	(NA)
Oil well operations only, total	1,286	51	5,973	22,112	4,832	8,215	15,448	106,984	44,212	9,543	141,116	19,623	5,494	80,130
With drilling.....	447	42	3,654	14,743	2,871	5,143	9,946	68,898	35,037	8,446	94,324	18,057	(NA)	(NA)
Without drilling.....	839	9	2,319	7,369	1,961	3,072	5,502	38,086	9,175	1,097	46,792	1,566	(NA)	(NA)
Oil and gas well operations, total.....	298	86	16,573	101,660	7,333	14,582	37,348	411,682	154,224	33,688	458,800	140,794	16,370	341,713
With drilling.....	210	81	16,084	99,764	6,955	13,891	36,062	400,125	151,227	33,019	444,739	139,632	(NA)	(NA)
Without drilling.....	88	5	489	1,896	378	691	1,286	11,557	2,997	669	14,061	1,162	(NA)	(NA)
Gas well operations only, total	41	2	337	2,005	84	144	308	5,871	4,685	648	6,840	4,364	125	13,063
With drilling.....	13	1	258	1,666	38	77	177	2,900	3,720	197	3,553	3,264	(NA)	(NA)
Without drilling.....	28	1	79	339	46	67	131	2,971	965	451	3,287	1,100	(NA)	(NA)
Nonproducing operations.....	36	...	50	230	36	58	144	( <sup>2</sup> )	831	64	...	318	57	( <sup>2</sup> )
Texas, total.....	3,225	335	66,669	401,576	32,833	65,949	163,967	2,878,841	884,917	185,252	3,291,403	657,607	63,156	2,623,155
Producing operations, total...	3,107	334	66,529	400,984	32,719	65,751	163,512	2,883,420	879,246	184,467	3,291,403	655,730	62,946	2,628,137
With drilling.....	1,448	299	60,974	379,076	28,407	58,092	148,580	2,721,147	850,387	181,620	3,104,865	648,289	(NA)	(NA)
Without drilling.....	1,659	35	5,555	21,908	4,312	7,659	14,932	162,273	28,859	2,847	186,538	7,441	(NA)	(NA)
Oil well operations only, total	2,318	97	11,775	51,369	8,202	15,503	30,384	270,651	140,452	32,371	374,487	68,987	10,148	282,895
With drilling.....	868	80	7,581	36,105	4,747	9,512	19,028	163,859	118,419	30,639	249,279	63,638	(NA)	(NA)
Without drilling.....	1,450	17	4,194	15,264	3,455	5,991	11,356	106,792	22,033	1,732	125,208	5,349	(NA)	(NA)
Oil and gas well operations, total.....	699	233	53,821	345,645	23,981	49,233	130,819	2,598,929	728,429	150,512	2,895,145	582,725	52,118	2,307,291
With drilling.....	544	216	52,614	339,682	23,234	47,752	127,668	2,553,851	722,224	149,428	2,844,661	580,842	(NA)	(NA)
Without drilling.....	155	17	1,207	5,963	747	1,481	3,151	45,078	6,205	1,084	50,484	1,883	(NA)	(NA)
Gas well operations only, total	90	4	933	3,970	536	1,015	2,309	13,840	10,365	1,584	21,771	4,018	680	37,951
With drilling.....	36	3	779	3,289	426	828	1,884	9,744	7,444	1,553	10,925	3,809	(NA)	(NA)
Without drilling.....	54	1	154	681	110	187	425	10,403	621	31	10,846	209	(NA)	(NA)
Nonproducing operations.....	118	1	140	592	114	198	455	( <sup>2</sup> )	5,671	785	...	1,877	210	( <sup>2</sup> )

See footnotes at end of table.

Table 2A.—General Statistics by Divisions, States, Alaska, and Type of Operation: 1958 and 1954—Continued

Industry, division, State, and type of operation <sup>1</sup>	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuel and electricity, and contract work	Cost of purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1311—CRUDE PETROLEUM AND NATURAL GAS—Continued														
Division, State, and etc.—Con.														
Mountain, total.....	1,001	114	14,501	89,686	7,121	14,172	38,005	841,883	320,698	63,441	951,170	274,852	12,167	529,746
Producing operations, total...	810	107	13,671	84,887	6,892	13,734	36,946	851,286	301,059	62,893	951,170	264,068	11,159	562,655
With drilling.....	390	97	11,947	76,025	5,795	11,748	32,003	744,564	286,513	54,443	833,274	252,246	(NA)	(NA)
Without drilling.....	420	10	1,724	8,862	1,097	1,986	4,943	106,722	14,546	8,450	117,896	11,822	(NA)	(NA)
Oil well operations only, total	553	34	3,676	21,305	1,967	3,758	9,209	207,741	80,574	21,146	254,128	55,333	3,607	98,414
With drilling.....	206	28	2,374	14,855	1,148	2,331	5,783	117,546	69,326	13,480	154,584	45,768	(NA)	(NA)
Without drilling.....	347	6	1,302	6,450	819	1,427	3,426	90,195	11,248	7,666	99,544	9,565	(NA)	(NA)
Oil and gas well operations, total.....	205	69	9,665	61,660	4,688	9,509	26,479	630,234	210,653	41,148	683,637	198,398	6,913	447,171
With drilling.....	164	66	9,335	59,727	4,473	9,065	25,249	615,748	207,575	40,455	667,455	196,323	(NA)	(NA)
Without drilling.....	41	3	330	1,933	215	444	1,230	14,486	3,078	693	16,182	2,075	(NA)	(NA)
Gas well operations only, total	52	4	330	1,922	237	467	1,258	13,311	9,832	599	13,405	10,337	639	17,070
With drilling.....	20	3	238	1,443	174	352	971	11,270	9,612	508	11,235	10,155	(NA)	(NA)
Without drilling.....	32	1	92	479	63	115	287	2,041	220	91	2,170	182	(NA)	(NA)
Nonproducing operations.....	191	7	830	4,799	229	438	1,059	( <sup>2</sup> )	19,639	548	...	10,784	1,008	( <sup>2</sup> )
Montana, total.....	172	14	1,597	9,882	751	1,422	4,041	63,121	26,347	4,748	77,729	16,487	1,702	23,677
Producing operations, total...	145	13	1,472	9,069	724	1,375	3,889	63,998	25,048	4,679	77,729	15,996	1,299	25,671
With drilling.....	42	10	1,098	7,341	460	895	2,799	58,744	23,493	4,369	71,060	15,546	(NA)	(NA)
Without drilling.....	103	3	374	1,728	264	480	1,090	5,254	1,555	310	6,669	450	(NA)	(NA)
Oil well operations only, total	115	7	905	5,309	318	569	1,374	51,978	19,800	4,179	62,205	13,752	841	8,993
With drilling.....	26	6	687	4,382	178	364	922	48,816	18,660	4,032	58,020	13,488	(NA)	(NA)
Without drilling.....	89	1	218	927	140	205	452	3,162	1,140	147	4,185	264	(NA)	(NA)
Nonproducing operations.....	27	1	125	813	27	47	152	( <sup>2</sup> )	1,299	69	...	491	403	( <sup>2</sup> )
Wyoming, total.....	209	28	3,710	23,862	1,913	3,895	10,763	272,602	59,786	12,793	296,191	48,990	4,181	193,467
Producing operations, total...	179	27	3,630	23,365	1,904	3,879	10,699	274,664	56,911	12,700	296,191	48,084	4,049	197,054
With drilling.....	89	27	3,391	22,199	1,728	3,562	9,932	267,441	55,426	12,604	287,674	47,797	(NA)	(NA)
Without drilling.....	90	...	239	1,166	176	317	767	7,223	1,485	96	8,517	287	(NA)	(NA)
Oil well operations only, total	138	6	703	4,077	444	871	2,042	28,149	13,538	1,546	36,721	6,512	1,287	26,666
With drilling.....	54	6	483	2,996	278	574	1,334	21,882	12,421	1,463	29,482	6,284	(NA)	(NA)
Without drilling.....	84	...	220	1,081	166	297	708	6,267	1,117	83	7,239	228	(NA)	(NA)
Nonproducing operations.....	30	1	80	497	9	16	64	( <sup>2</sup> )	2,875	93	...	906	132	( <sup>2</sup> )
Colorado, total.....	222	34	3,665	24,344	1,141	2,267	6,290	132,435	40,269	15,611	155,256	33,059	2,340	107,149
Producing operations, total...	166	30	3,295	22,184	1,097	2,154	6,060	135,297	36,324	15,546	155,256	31,911	2,101	108,724
With drilling.....	81	23	2,523	17,696	690	1,420	3,901	55,724	29,293	7,873	70,394	22,496	(NA)	(NA)
Without drilling.....	85	7	772	4,488	407	734	2,159	79,573	7,031	7,673	84,862	9,415	(NA)	(NA)
Oil well operations only, total	104	12	1,050	6,553	469	867	2,306	75,491	11,094	9,228	84,865	10,948	658	43,482
With drilling.....	36	7	449	3,244	146	287	714	6,113	6,032	2,131	10,790	3,486	(NA)	(NA)
Without drilling.....	68	5	601	3,309	323	580	1,592	69,378	5,062	7,097	74,075	7,462	(NA)	(NA)
Oil and gas well operations	51	17	2,163	15,191	578	1,183	3,509	54,209	20,503	6,225	65,169	15,768	51,443	565,242
Gas well operations only....	11	1	82	440	50	104	245	5,597	4,727	93	5,222	5,195	( <sup>2</sup> )	( <sup>2</sup> )
Nonproducing operations.....	56	4	370	2,160	44	113	230	( <sup>2</sup> )	3,945	65	...	1,148	239	( <sup>2</sup> )
New Mexico.....	314	30	4,605	25,743	2,779	5,496	13,975	314,428	142,679	22,494	347,388	132,213	3,249	209,219
Producing operations, total...	291	30	4,574	25,614	2,756	5,465	13,900	316,010	140,891	22,445	347,388	131,958	3,239	230,399
With drilling.....	160	30	4,291	24,537	2,521	5,038	13,042	302,848	136,660	22,074	331,264	130,318	(NA)	(NA)
Without drilling.....	131	...	283	1,077	235	427	858	13,162	4,231	371	16,124	1,640	(NA)	(NA)
Oil well operations only, total	179	6	644	2,820	516	982	2,113	31,518	20,777	3,242	41,389	14,148	576	20,664
With drilling.....	81	6	426	2,013	333	651	1,464	21,332	17,091	2,903	28,783	12,543	(NA)	(NA)
Without drilling.....	98	...	218	807	183	331	649	10,186	3,686	339	12,606	1,605	(NA)	(NA)
Oil and gas well operations, total.....	84	24	3,879	22,529	2,194	4,405	11,540	281,306	116,367	18,989	302,338	114,324	2,376	198,455
With drilling.....	69	24	3,832	22,330	2,157	4,330	11,386	279,049	115,912	18,958	299,626	114,293	(NA)	(NA)
Without drilling.....	15	...	47	199	37	75	154	2,257	455	31	2,712	31	(NA)	(NA)
Gas well operations.....	28	...	51	265	46	78	247	3,186	3,747	214	3,661	3,486	287	11,280
Idaho, Arizona, Utah and Nevada, total	84	8	924	5,855	537	1,092	2,936	59,297	51,617	7,795	74,606	44,103	695	( <sup>2</sup> )
Producing operations, total...	29	7	700	4,655	411	861	2,398	61,317	41,885	7,523	74,606	36,119	471	807
With drilling.....	18	7	644	4,252	396	833	2,329	59,807	41,641	7,523	72,882	36,089	(NA)	(NA)
Without drilling.....	11	...	56	403	15	28	69	1,510	244	...	1,724	30	(NA)	(NA)
Oil well operations only....	17	3	374	2,546	220	466	1,374	20,605	15,365	2,951	28,948	9,973	245	( <sup>2</sup> )
With drilling.....	9	3	329	2,220	213	455	1,349	19,403	15,122	2,951	27,509	9,967	(NA)	(NA)
Oil and gas well operations	8	4	311	1,996	183	378	980	40,277	26,461	4,572	45,188	26,122	5226	52,198
Nonproducing operations.....	55	...	224	1,200	126	231	538	( <sup>2</sup> )	9,732	272	...	7,984	224	( <sup>2</sup> )

See footnotes at end of table.



Table 2A.—General Statistics by Divisions, States, Alaska, and Type of Operation: 1958 and 1954—Continued

Industry, division, State, and type of operation <sup>1</sup>	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuel and electricity, and contract work	Cost of purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1311—CRUDE PETROLEUM AND NATURAL GAS—Continued														
Division, State, and etc.—Con.														
Pacific.....	598	69	16,665	113,026	9,879	19,351	55,618	945,738	181,571	29,159	1,020,738	135,730	17,210	1,012,206
Producing operations, total...	559	67	16,520	112,090	9,830	19,256	55,380	947,251	178,306	28,921	1,020,738	133,740	17,082	1,013,852
With drilling.....	148	54	14,826	103,077	8,687	17,167	50,349	901,117	168,960	28,255	965,838	132,494	(NA)	(NA)
Without drilling.....	411	13	1,694	9,013	1,143	2,089	5,031	46,134	9,346	666	54,900	1,246	(NA)	(NA)
Oil well operations only, total	492	38	5,095	30,587	3,557	6,794	18,530	274,765	49,472	6,313	304,837	25,713	5,550	368,653
With drilling.....	102	28	3,735	23,872	2,488	4,843	13,864	230,555	40,809	5,739	252,430	24,673	(NA)	(NA)
Without drilling.....	390	10	1,360	6,715	1,069	1,951	4,666	44,210	8,663	574	52,407	1,040	(NA)	(NA)
Oil and gas well operations, total.....	58	28	11,374	81,243	6,237	12,409	36,682	670,712	128,085	22,383	713,722	107,458	11,445	643,393
With drilling.....	40	25	11,046	78,963	6,168	12,278	36,332	668,914	127,444	22,291	711,397	107,252	(NA)	(NA)
Without drilling.....	18	3	328	2,280	69	131	350	1,798	641	92	2,325	206	(NA)	(NA)
Gas well operations only....	9	1	51	260	36	53	168	1,774	749	225	2,179	569	87	1,806
Nonproducing operations.....	39	2	145	936	49	95	238	( <sup>2</sup> )	3,265	238	...	1,990	128	( <sup>2</sup> )

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>General statistics for some States are not shown separately in this table in order to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such States are shown below for the Crude Petroleum and Natural Gas Industry in 1958 with the number of establishments in each State (and in parenthesis the number of employees or employee size range): Minnesota offices (20-50); Missouri, 10 (420); South Dakota, 11 (0-5); Delaware offices (5-10); Maryland, 4 (20-50); Virginia, 5 (20-50); Georgia, 2 (0-5); Tennessee, 27 (9); Idaho, 2 (10-20); Arizona, 21 (20-50); Nevada, 2 (10-20); Washington, 6 (108); and Oregon, 9 (22).

<sup>2</sup>Not shown since the cost of supplies, purchased fuel and electricity, contract work, and purchased machinery installed exceeds the value of shipments and receipts plus capital expenditures.

<sup>3</sup>Includes data for central offices or related facilities in Minnesota.

<sup>4</sup>Includes data for central offices or related facilities in Delaware.

<sup>5</sup>Figures for Gas well operations are included with those for Oil and gas well operations.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 2B.—Selected Statistics for the Crude Petroleum and Natural Gas Industry, by County: 1958

State and county	County establishments, number <sup>1</sup>				All employees		Value of shipments and receipts <sup>1</sup> (\$1,000)
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Payroll <sup>1</sup> (\$1,000)	
United States, total.....	25,363	24,046	1,134	183	179,961	1,042,186	8,385,906
Middle Atlantic, total.....	999	965	31	3	5,106	22,689	57,222
New York, total.....	200	195	5	...	965	5,617	7,725
Allegany.....	115	111	4	...	455	1,862	4,457
Cattaraugus.....	38	37	1	...	133	544	1,944
Other counties.....	17	17	...	...	344	3,079	622
Undistributed.....	30	30	...	...	33	132	702
Pennsylvania, total.....	799	770	26	3	4,141	17,072	49,497
Armstrong.....	39	39	...	...	200	795	2,896
Clearfield.....	11	11	...	...	62	247	5,061
Elk.....	22	22	...	...	117	466	2,156
Green.....	42	39	3	...	166	661	1,423
Indiana.....	15	14	1	...	138	549	2,559
Jefferson.....	22	20	2	...	131	522	1,746
McKean.....	188	180	5	3	1,652	7,036	20,092
Venango.....	81	77	4	...	471	1,933	1,850
Warren.....	50	49	1	...	162	645	1,141
Washington.....	29	27	2	...	163	649	1,322
Westmoreland.....	21	20	1	...	112	446	1,682
Other counties.....	201	194	7	...	653	2,671	5,560
Undistributed.....	78	78	...	...	114	452	2,009
East North Central, total.....	2,689	2,621	60	8	11,311	54,896	308,553
Ohio, total.....	652	636	16	...	2,988	16,205	22,954
Coshocton.....	35	34	1	...	85	316	2,916
Holmes.....	30	29	1	...	67	249	1,329
Licking.....	32	30	2	...	216	802	1,632
Muskingum.....	26	26	...	...	85	316	1,353
Perry.....	44	42	2	...	156	579	1,384
Washington.....	84	84	...	...	152	575	1,234
Wayne.....	22	20	2	...	99	368	4,376
Other counties.....	330	324	6	...	1,989	12,196	6,619
Undistributed.....	49	47	2	...	139	804	2,111
Indiana, total.....	322	317	4	1	1,197	5,347	31,361
Gibson.....	79	77	2	...	255	1,141	9,961
Pike.....	39	38	1	...	102	456	3,626
Posey.....	84	84	...	...	196	876	9,229
Vanderburgh.....	40	39	1	...	196	876	3,881
Other counties.....	61	60	...	1	228	1,015	3,271
Undistributed.....	19	19	...	...	220	983	1,393
Illinois, total.....	1,398	1,357	34	7	6,100	28,181	229,662
Bond.....	22	22	...	...	20	92	1,612
Christian.....	24	23	1	...	56	258	2,583
Clark.....	26	24	2	...	118	544	1,610
Clay.....	79	78	...	1	346	1,594	9,062
Clinton.....	50	49	1	...	148	682	12,254
Coles.....	37	36	1	...	95	437	1,424
Crawford.....	47	43	3	1	482	2,220	9,251
Cumberland.....	6	5	1	...	45	207	2,075
Edwards.....	57	56	1	...	126	580	3,989
Effingham.....	39	38	1	...	105	484	1,927
Fayette.....	30	29	...	1	228	1,050	39,138
Franklin.....	37	37	...	...	77	355	5,873
Gallatin.....	52	52	...	...	84	387	7,783
Hamilton.....	74	72	2	...	224	1,032	8,285
Jasper.....	43	43	...	...	63	290	5,873
Jefferson.....	56	53	3	...	272	1,253	7,718
Lawrence.....	52	49	2	1	533	2,455	15,036
Marion.....	42	40	1	1	409	1,884	20,382
Richland.....	53	52	...	1	443	2,040	5,867
Saline.....	46	46	...	...	77	355	3,053
Wabash.....	97	93	4	...	318	1,465	10,029
Washington.....	34	34	...	...	53	244	2,472
Wayne.....	112	108	3	1	538	2,478	19,357
White.....	125	119	6	...	530	2,441	20,316
Other counties.....	82	82	...	...	162	828	3,430
Undistributed.....	76	74	2	...	548	2,526	9,263
Michigan, total.....	317	311	6	...	1,026	5,163	24,576
Allegan.....	21	21	...	...	44	213	1,138
Arenac.....	22	22	...	...	68	330	1,526
Clare.....	14	13	1	...	63	306	1,803
Gladwin.....	21	20	1	...	76	369	1,230
Isabella.....	20	19	1	...	135	655	2,437
Missaukee.....	5	4	1	...	44	213	1,394
Montcalm.....	15	15	...	...	36	175	1,086
Osceola.....	15	15	...	...	74	359	1,977
Other counties.....	160	158	2	...	460	2,417	10,534
Undistributed.....	24	24	...	...	26	126	1,451

See footnotes at end of table.



Table 2B.—Selected Statistics for the Crude Petroleum and Natural Gas Industry, by County: 1958—Continued

State and county	County establishments, number <sup>1</sup>				All employees		Value of shipments and receipts <sup>1</sup> (\$1,000)
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Payroll <sup>1</sup> (\$1,000)	
West North Central, total.....	3,441	3,343	93	5	10,991	53,703	487,331
North Dakota, total.....	88	82	5	1	559	3,422	41,106
Bottineau.....	11	11	...	...	11	67	2,030
Burke.....	23	22	1	...	58	354	3,074
McKenzie.....	8	7	1	...	53	324	12,187
Mountrail.....	4	3	1	...	44	269	5,617
Williams.....	11	10	...	1	179	1,093	16,530
Other counties.....	28	26	2	...	162	997	1,325
Undistributed.....	3	3	...	...	52	318	343
Nebraska, total.....	149	143	5	1	570	2,814	57,940
Banner.....	27	27	...	...	38	188	11,234
Cheyenne.....	19	18	...	1	162	800	14,674
Kimball.....	62	58	4	...	184	909	25,770
Morrill.....	13	13	...	...	6	30	1,711
Other counties.....	21	21	...	...	100	494	2,682
Undistributed.....	7	6	1	...	80	393	1,869
Kansas, total.....	3,183	3,097	83	3	9,405	44,634	387,950
Allen.....	25	24	1	...	104	492	1,364
Anderson.....	14	13	1	...	93	440	1,138
Barber.....	48	46	2	...	211	997	6,315
Barton.....	263	249	13	1	1,074	5,077	39,567
Butler.....	177	172	4	1	714	3,381	21,310
Chautauqua.....	53	50	3	...	156	737	2,364
Clark.....	13	13	...	...	27	128	1,384
Cowley.....	88	86	2	...	280	1,324	10,926
Decatur.....	9	9	...	...	23	109	1,167
Ellis.....	290	284	6	...	424	2,004	25,606
Ellsworth.....	46	45	1	...	133	629	5,661
Finney.....	27	27	...	...	65	323	5,381
Graham.....	111	108	3	...	214	1,012	18,230
Grant.....	18	17	1	...	78	369	17,245
Greenwood.....	109	102	7	...	487	2,302	18,573
Harper.....	27	26	1	...	108	511	3,086
Haskell.....	24	24	...	...	28	132	3,132
Kingman.....	43	43	...	...	104	492	7,176
Kiowa.....	23	22	1	...	59	279	2,750
McPherson.....	99	99	...	...	213	1,007	10,780
Marion.....	58	56	2	...	138	652	6,066
Meade.....	25	25	...	...	73	345	2,861
Miami.....	19	19	...	...	58	274	1,365
Montgomery.....	51	50	1	...	118	558	1,352
Morton.....	18	18	...	...	22	104	9,182
Ness.....	18	18	...	...	17	80	1,149
Norton.....	14	14	...	...	12	57	2,936
Pawnee.....	97	97	...	...	68	321	4,471
Phillips.....	23	22	1	...	80	378	5,669
Pratt.....	36	35	1	...	111	525	6,409
Reno.....	41	41	...	...	114	539	3,485
Rice.....	99	96	3	...	365	1,731	14,812
Rooks.....	72	70	2	...	310	1,408	15,011
Rush.....	27	27	...	...	29	137	2,881
Russell.....	168	160	8	...	503	2,381	22,820
Sedgwick.....	87	74	13	...	876	4,337	7,384
Seward.....	30	30	...	...	87	411	2,745
Sheridan.....	12	12	...	...	52	246	1,168
Stafford.....	97	95	2	...	233	1,101	14,740
Stevens.....	17	16	1	...	48	227	7,968
Sumner.....	68	68	...	...	125	591	6,339
Trego.....	177	175	2	...	65	307	4,724
Woodson.....	41	41	...	...	79	373	1,758
Other counties.....	281	280	1	...	527	2,497	16,746
Undistributed.....	100	99	1	...	700	3,309	20,754
Missouri and South Dakota.....	21	21	...	...	2,457	2,833	335
South Atlantic, total.....	1,135	1,087	48	...	3,997	14,374	48,581
West Virginia, total.....	1,108	1,063	45	...	3,791	13,281	45,742
Boone.....	21	20	1	...	56	197	1,122
Calhoun.....	89	86	3	...	227	797	1,912
Kanawha.....	44	38	6	...	293	1,029	3,786
Lewis.....	17	16	1	...	107	376	2,148
Lincoln.....	67	64	3	...	196	688	3,822

See footnotes at end of table.

Table 2B.—Selected Statistics for the Crude Petroleum and Natural Gas Industry, by County: 1958—Continued

State and county	County establishments, number <sup>1</sup>				All employees		Value of shipments and receipts <sup>1</sup> (\$1,000)
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Payroll <sup>1</sup> (\$1,000)	
South Atlantic—Continued							
West Virginia—Continued							
Logan.....	23	20	3	...	127	446	3,153
Mingo.....	30	29	1	...	78	274	2,639
Putnam.....	25	24	1	...	136	477	1,471
Ritchie.....	154	151	3	...	306	1,074	1,325
Roane.....	30	28	2	...	133	467	1,476
Wayne.....	45	44	1	...	130	456	2,109
Wyoming.....	9	7	2	...	126	442	2,112
Other counties.....	483	466	17	...	1,645	5,747	14,740
Undistributed.....	71	70	1	...	231	811	3,927
Maryland, Virginia, Georgia, and Florida.....	27	24	3	...	3206	31,093	2,839
East South Central, total.....							
Kentucky, total.....	579	548	30	1	3,097	11,410	61,814
Breathitt.....	5	4	1	...	68	251	1,495
Christian.....	9	9	...	...	45	166	1,163
Daviess.....	62	60	2	...	290	1,068	3,593
Floyd.....	13	10	2	1	134	494	2,968
Henderson.....	59	58	1	...	180	663	8,351
Knott.....	13	12	1	...	89	328	2,038
Lee.....	13	10	3	...	170	626	2,032
McLean.....	31	29	2	...	116	427	1,942
Magoffin.....	14	12	2	...	158	582	4,142
Martin.....	15	14	1	...	109	402	2,045
Muhlenberg.....	22	22	...	...	80	295	1,651
Ohio.....	39	37	2	...	156	575	2,518
Pike.....	17	13	4	...	194	715	5,932
Union.....	27	25	2	...	105	387	4,431
Webster.....	31	28	3	...	122	449	2,807
Other counties.....	148	146	2	...	574	2,114	5,873
Undistributed.....	61	59	2	...	507	1,868	8,833
Tennessee.....	27	27	...	...	7	24	127
Alabama, total.....							
Mobile.....	9	7	2	...	120	737	13,033
Other counties.....	11	11	...	...	36	213	3,258
Undistributed.....	22	22	...	...	*66	405	126
Mississippi, total.....							
Adams.....	35	33	2	...	239	1,488	14,672
Forrest.....	11	8	3	...	151	940	6,517
Franklin.....	15	15	...	...	26	162	3,315
Jasper.....	26	25	...	1	130	810	14,005
Jefferson.....	17	16	1	...	47	293	9,345
Jefferson Davis.....	6	6	...	...	33	206	5,037
Jones.....	25	22	3	...	141	878	10,459
Lamar.....	10	10	...	...	25	156	5,665
Lincoln.....	11	10	1	...	128	797	9,434
Marion.....	9	9	...	...	25	155	1,762
Pearl River.....	9	9	...	...	34	212	2,494
Pike.....	4	4	...	...	6	37	1,050
Smith.....	6	5	1	...	46	286	4,727
Wayne.....	21	18	3	...	171	1,065	11,615
Wilkinson.....	15	14	1	...	53	330	2,228
Yazoo.....	18	18	...	...	42	262	10,083
Other counties.....	56	42	14	...	753	4,690	11,537
Undistributed.....	14	14	...	...	31	129	7,964
West South Central, total.....							
Arkansas, total.....	316	301	14	1	1,908	9,636	81,986
Columbia.....	49	44	5	...	333	1,646	20,413
Franklin.....	3	3	...	...	64	316	4,942
Lafayette.....	27	27	...	...	71	351	12,919
Miller.....	23	23	...	...	58	287	5,297
Nevada.....	17	17	...	...	46	227	1,672
Quachita.....	67	64	3	...	291	1,438	16,053
Union.....	94	89	4	1	730	3,815	19,238
Other counties.....	18	17	1	...	95	470	1,452
Undistributed.....	18	17	1	...	220	1,086	...
Louisiana, total.....							
Acadia.....	52	48	4	...	436	2,737	40,554
Allen.....	10	9	1	...	41	257	5,766
Assumption.....	22	22	...	...	65	408	11,183
Avoyelles.....	4	4	...	...	27	169	2,031
Beauregard.....	24	23	1	...	103	647	13,794
Bienville.....	18	18	...	...	32	201	5,544
Bossier.....	41	37	4	...	239	1,500	22,028
Caddo.....	143	121	17	5	2,558	16,313	27,694
Calcasieu.....	55	47	5	3	939	5,894	28,625

See footnotes at end of table.



Table 2B.—Selected Statistics for the Crude Petroleum and Natural Gas Industry, by County: 1958—Continued

State and county	County establishments, number <sup>1</sup>				All employees		Value of shipments and receipts <sup>1</sup> (\$1,000)
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Payroll <sup>1</sup> (\$1,000)	
West South Central--Continued							
Louisiana--Continued							
Cameron.....	32	27	4	1	366	2,297	64,942
Catahoula.....	10	10	...	...	14	88	1,939
Claiborne.....	44	38	6	...	335	2,103	16,484
Concordia.....	27	26	1	...	111	697	14,712
De Soto.....	43	42	1	...	111	703	8,365
East Baton Rouge.....	10	9	...	1	135	847	4,276
Evangeline.....	14	14	...	...	37	232	6,294
Franklin.....	9	8	1	...	32	201	1,311
Iberia.....	19	16	...	3	620	3,892	44,888
Iberville.....	19	16	3	...	218	1,368	19,841
Jefferson.....	19	13	2	4	891	5,593	27,285
Jefferson Davis.....	26	23	2	1	308	1,933	25,573
Lafayette.....	33	24	6	3	937	5,883	2,253
Lafourche.....	38	26	8	4	1,445	9,070	114,570
La Salle.....	26	22	4	...	265	1,663	13,736
Lincoln.....	17	16	1	...	107	672	9,387
Ouachita.....	22	17	5	...	219	1,375	9,256
Plaquemines.....	24	13	3	8	1,932	12,127	226,893
Rapides.....	10	10	...	...	9	56	1,260
Red River.....	16	15	1	...	66	414	685
St. Charles.....	11	7	4	...	193	1,211	22,095
St. James.....	7	6	1	...	50	314	4,309
St. Landry.....	30	25	5	...	265	1,663	24,690
St. Martin.....	31	28	2	1	324	2,034	37,169
St. Mary.....	22	14	6	2	653	4,099	51,775
Tensas.....	14	13	1	...	50	314	8,189
Terrebonne.....	25	18	5	2	1,426	8,951	110,689
Union.....	20	19	1	...	107	672	8,526
Vermilion.....	36	34	2	...	238	1,494	41,051
Webster.....	38	36	2	...	110	690	16,122
Other counties.....	103	87	13	3	2,845	19,592	29,035
Offshore.....	15	9	1	5	1,455	9,133	116,964
Undistributed.....	53	52	...	1	223	1,401	80,116
Oklahoma, total.....	3,589	3,407	161	21	22,791	126,007	606,756
Alfalfa.....	22	22	...	...	30	153	1,737
Beaver.....	36	36	...	...	55	280	7,345
Beckham.....	13	12	1	...	93	474	9,998
Caddo.....	54	50	4	...	276	1,407	13,947
Carter.....	177	156	19	2	1,362	6,942	49,083
Cimarron.....	20	19	1	...	40	204	1,418
Cleveland.....	59	58	1	...	175	871	13,663
Coal.....	14	14	...	...	10	51	1,355
Cotton.....	36	36	...	...	71	362	3,513
Creek.....	236	228	7	1	1,025	5,224	24,437
Garfield.....	52	50	2	...	202	1,030	4,375
Garvin.....	136	124	11	1	949	4,837	69,202
Grady.....	59	54	5	...	277	1,412	17,295
Grant.....	42	42	...	...	78	398	2,932
Harper.....	68	68	...	...	26	133	1,146
Hughes.....	100	99	1	...	201	1,024	6,832
Jefferson.....	35	35	...	...	58	296	3,611
Kay.....	81	79	2	...	246	1,254	6,935
Kiowa.....	19	18	1	...	57	291	1,204
Lincoln.....	129	123	6	...	403	2,054	13,930
Logan.....	77	76	1	...	193	984	8,072
Love.....	20	20	...	...	15	76	1,808
McClain.....	56	52	4	...	234	1,193	13,390
Major.....	15	15	...	...	33	168	1,634
Marshall.....	25	24	1	...	132	673	6,446
Muskogee.....	26	26	...	...	43	219	498
Noble.....	70	69	1	...	166	846	8,980
Nowata.....	52	45	7	...	512	2,610	11,081
Okfuskee.....	102	101	1	...	207	1,055	8,324
Oklahoma.....	92	71	16	5	2,995	17,509	26,095
Okmulgee.....	113	110	3	...	327	1,667	4,841
Osage.....	216	201	13	2	1,429	7,284	61,459
Pawnee.....	80	80	...	...	166	846	5,459
Payne.....	95	92	3	...	252	1,274	12,812
Pontotoc.....	106	103	3	...	386	1,967	7,902
Pottawatomie.....	116	113	3	...	316	1,611	9,497
Rogers.....	29	26	2	1	263	1,341	6,171
Seminole.....	157	145	11	1	818	4,169	21,607
Stephens.....	181	171	8	2	1,075	5,479	65,413
Texas.....	29	28	1	...	130	663	13,714

See footnotes at end of table.

Table 2B.—Selected Statistics for the Crude Petroleum and Natural Gas Industry, by County: 1958—Continued

State and county	County establishments, number <sup>1</sup>				All employees		Value of shipments and receipts <sup>1</sup> (\$1,000)
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Payroll <sup>1</sup> (\$1,000)	
West South Central—Continued							
Oklahoma—Continued							
Tillman.....	18	17	1	...	47	240	1,772
Tulsa.....	134	118	11	5	5,622	35,262	4,320
Washington.....	89	84	5	...	411	2,095	10,666
Other counties.....	137	137	...	...	195	1,489	15,038
Undistributed.....	166	160	5	1	1,190	6,590	25,799
Texas, total.....							
Anderson.....	8,678	8,294	339	45	66,672	401,576	3,291,403
Andrews.....	56	55	1	...	146	839	17,468
Aransas.....	156	146	9	1	1,074	6,173	180,192
Archer.....	38	38	...	...	79	454	10,456
Atascosa.....	226	220	6	...	661	3,799	24,227
Austin.....	58	56	1	1	285	1,638	12,326
Baylor.....	15	14	1	...	65	374	4,897
Bee.....	56	56	...	...	107	615	7,156
Borden.....	79	76	2	1	421	2,420	9,836
Brazoria.....	51	50	1	...	115	661	30,524
Brooks.....	65	59	4	2	693	3,983	93,525
Caldwell.....	23	22	1	...	151	868	23,076
Calhoun.....	62	60	1	1	241	1,385	10,557
Callahan.....	39	36	3	...	190	1,092	12,228
Carson.....	88	88	...	...	127	730	6,020
Cass.....	57	52	4	1	321	1,845	23,066
Chambers.....	22	22	...	...	109	627	6,518
Cherokee.....	39	35	3	1	334	1,920	50,692
Clay.....	21	21	...	...	47	270	5,129
Cochran.....	82	79	3	...	279	1,604	16,250
Coke.....	69	68	1	...	194	1,115	18,225
Coleman.....	33	32	1	...	98	563	29,285
Colorado.....	111	110	1	...	191	1,098	8,182
Cooke.....	31	30	1	...	81	466	10,110
Crane.....	79	73	5	1	425	2,443	22,427
Crockett.....	99	91	7	1	973	5,593	97,051
Crosby.....	76	74	2	...	273	1,569	20,813
Dawson.....	11	11	...	...	16	92	1,164
De Witt.....	52	52	...	...	86	494	12,114
Dimmit.....	38	38	...	...	74	425	8,592
Duval.....	10	10	...	...	31	178	1,556
Eastland.....	113	105	7	1	616	3,541	32,283
Ector.....	52	50	2	...	164	942	2,769
Fisher.....	152	136	11	5	2,020	11,611	178,071
Foard.....	70	66	4	...	185	1,063	14,121
Fort Bend.....	7	7	...	...	19	109	1,654
Franklin.....	44	43	1	...	281	1,615	26,212
Freestone.....	12	11	1	...	116	667	11,674
Frio.....	11	11	...	...	15	86	1,767
Gaines.....	32	31	1	...	78	448	5,937
Galveston.....	82	79	3	...	342	1,966	66,123
Garza.....	27	24	3	...	214	1,230	28,469
Glasscock.....	70	67	3	...	175	1,006	13,625
Goliad.....	44	43	1	...	85	489	6,628
Gray.....	44	43	1	...	159	914	12,563
Grayson.....	101	92	8	1	886	5,085	47,694
Gregg.....	54	52	2	...	185	1,063	20,611
Guadalupe.....	258	247	8	3	1,847	10,616	93,167
Hansford.....	44	43	1	...	193	1,109	12,252
Hardin.....	26	24	1	1	237	1,362	12,965
Harris.....	58	55	2	1	360	2,069	23,942
Harrison.....	190	143	39	8	10,522	73,162	73,293
Haskell.....	52	49	3	...	224	1,288	13,353
Henderson.....	48	47	1	...	137	787	10,753
Hidalgo.....	12	11	1	...	125	719	2,280
Hockley.....	36	31	5	...	269	1,546	19,510
Hopkins.....	55	53	2	...	378	2,173	38,870
Houston.....	9	9	...	...	72	414	3,634
Howard.....	13	12	1	...	54	310	2,808
Hutchinson.....	102	99	3	...	619	3,558	39,784
Irion.....	126	120	4	2	958	5,417	48,707
Jack.....	15	15	...	...	10	57	1,964
Jackson.....	117	116	1	...	321	1,845	13,349
Jasper.....	76	74	1	1	667	3,834	38,034
Jefferson.....	3	3	...	...	8	46	1,609
	37	35	2	...	1,169	6,719	29,584

See footnotes at end of table.



Table 2B.—Selected Statistics for the Crude Petroleum and Natural Gas Industry, by County: 1958—Continued

State and county	County establishments, number <sup>1</sup>				All employees		Value of shipments and receipts <sup>1</sup> (\$1,000)
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Payroll <sup>1</sup> (\$1,000)	
West South Central—Continued							
Texas—Continued							
Jim Hogg.....	22	22	...	...	181	1,040	5,570
Jim Wells.....	68	65	3	...	479	2,754	49,543
Jones.....	111	107	4	...	369	2,121	15,053
Karnes.....	22	22	...	...	40	230	6,681
Kaufman.....	7	7	...	...	13	75	2,022
Kent.....	16	15	1	...	102	586	20,272
King.....	15	15	...	...	23	132	2,753
Kleberg.....	10	10	...	...	214	1,230	18,235
Knox.....	62	62	...	...	96	552	5,699
Lamb.....	9	9	...	...	40	230	1,586
Lavaca.....	22	21	1	...	78	448	7,766
Leon.....	5	5	...	...	5	29	1,695
Liberty.....	67	64	3	...	600	3,449	44,047
Limestone.....	9	8	1	...	55	316	1,037
Live Oak.....	49	49	...	...	103	592	13,116
Loving.....	32	32	...	...	53	305	5,708
Lubbock.....	19	19	...	...	131	753	2,135
McMullen.....	22	22	...	...	39	224	3,641
Marion.....	29	27	2	...	127	730	9,674
Martin.....	8	8	...	...	19	109	6,037
Matagorda.....	37	34	3	...	254	1,460	22,994
Midland.....	100	78	22	...	3,590	21,728	42,049
Mitchell.....	57	56	1	...	98	563	5,778
Montague.....	91	88	3	...	333	1,914	15,471
Montgomery.....	42	39	2	1	425	2,443	23,255
Moore.....	15	14	...	1	232	1,334	24,123
Navarro.....	36	35	1	...	196	1,127	4,235
Newton.....	8	8	...	...	7	40	4,872
Nolan.....	60	59	1	...	205	1,178	21,776
Neuces.....	100	91	9	...	1,736	10,424	53,592
Ochiltree.....	23	21	1	1	185	1,063	10,833
Orange.....	29	26	3	...	355	2,041	11,561
Panola.....	46	44	2	...	244	1,403	38,037
Parker.....	10	10	...	...	18	103	1,987
Pecos.....	107	103	4	...	528	3,035	47,456
Polk.....	20	20	...	...	76	437	4,362
Potter.....	22	19	3	...	680	4,729	2,988
Reagan.....	65	63	2	...	294	1,690	25,105
Reeves.....	17	17	...	...	76	437	2,251
Refugio.....	58	56	2	...	341	1,960	55,940
Roberts.....	11	11	...	...	62	356	5,163
Runnels.....	70	70	...	...	278	1,598	11,134
Rusk.....	160	154	5	1	1,114	6,403	70,717
San Jacinto.....	6	6	...	...	12	69	1,804
San Patricio.....	94	91	2	1	462	2,656	35,889
Schleicher.....	24	23	1	...	104	598	7,764
Scurry.....	94	92	2	...	684	3,932	102,379
Shackelford.....	113	111	2	...	327	1,880	7,808
Sherman.....	13	13	...	...	18	103	17,615
Smith.....	32	29	3	...	672	4,066	6,733
Starr.....	40	40	...	...	198	1,138	20,373
Stephens.....	92	90	2	...	269	1,546	9,790
Sterling.....	20	20	...	...	27	155	1,636
Stonewall.....	63	63	...	...	177	1,017	19,987
Taylor.....	94	91	3	...	509	2,928	11,474
Terry.....	18	16	2	...	221	1,270	15,591
Throckmorton.....	75	73	2	...	210	1,207	12,873
Titus.....	12	12	...	...	157	902	8,585
Tom Green.....	37	37	...	...	159	914	6,106
Tyler.....	5	4	1	...	26	149	2,300
Upshur.....	19	19	...	...	92	529	8,989
Upton.....	107	104	3	...	398	2,288	45,365
Van Zandt.....	8	7	...	1	206	1,184	17,518
Victoria.....	68	68	...	...	289	1,661	23,565
Ward.....	63	62	1	...	700	4,024	55,240
Webb.....	45	45	...	...	117	673	3,921
Wharton.....	65	63	2	...	302	1,736	22,995
Wheeler.....	46	46	...	...	99	569	4,600
Wichita.....	235	231	4	...	1,380	8,100	29,384
Wilbarger.....	73	71	2	...	341	1,960	15,208

See footnotes at end of table.

Table 2B.—Selected Statistics for the Crude Petroleum and Natural Gas Industry, by County: 1958—Continued

State and county	County establishments, number <sup>1</sup>				All employees		Value of shipments and receipts <sup>1</sup> (\$1,000)
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Payroll <sup>1</sup> (\$1,000)	
West South Central—Continued							
Texas—Continued							
Willacy.....	5	5	...	...	28	161	5,830
Wilson.....	32	32	...	...	39	224	1,936
Winkler.....	69	64	4	1	1,002	5,759	62,792
Wise.....	40	38	2	...	220	1,265	12,664
Wood.....	66	65	1	...	334	1,920	46,086
Yoakum.....	77	73	4	...	451	2,592	41,051
Young.....	204	202	2	...	605	3,453	18,947
Zapata.....	14	14	...	...	68	391	2,060
Other counties.....	485	453	27	5	7,914	48,580	35,343
Offshore.....	6	4	2	...	34	195	3,626
Undistributed.....	297	292	5	...	2,130	12,212	93,906
Mountain, total.....	1,473	1,323	133	17	14,521	89,686	951,170
Montana, total.....	231	214	16	1	1,599	9,882	77,729
Glacier.....	45	42	3	...	242	1,470	6,555
Musselshell.....	12	11	1	...	34	206	2,165
Toole.....	51	51	...	...	131	796	2,262
Other counties.....	112	99	12	1	1,129	7,026	66,496
Undistributed.....	11	11	...	...	63	384	251
Wyoming, total.....	357	317	37	3	3,731	23,862	296,191
Big Horn.....	23	20	3	...	208	1,319	29,427
Campbell.....	10	10	...	...	7	44	1,800
Converse.....	24	23	1	...	104	659	13,652
Fremont.....	23	19	4	...	197	1,249	38,534
Hot Springs.....	19	16	3	...	265	1,680	30,971
Johnson.....	12	11	...	1	125	793	19,474
Laramie.....	10	10	...	...	18	114	1,711
Natrona.....	52	37	13	2	1,203	7,610	30,879
Niobrara.....	14	13	1	...	80	507	2,458
Park.....	18	15	3	...	328	2,270	65,888
Sublette.....	9	8	1	...	72	456	6,034
Washakie.....	17	14	3	...	242	1,535	19,015
Weston.....	63	63	...	...	160	1,015	5,895
Other counties.....	49	44	5	...	270	1,743	29,248
Undistributed.....	14	14	...	...	452	2,868	1,205
Colorado, total.....	353	315	33	5	3,650	24,344	155,256
Adams.....	18	17	1	...	43	275	2,080
Jackson.....	5	5	...	...	19	124	2,698
La Plata.....	28	24	4	...	298	1,942	3,323
Logan.....	37	34	3	...	170	1,108	17,876
Moffat.....	7	5	2	...	108	704	4,253
Morgan.....	43	42	1	...	98	639	22,806
Rio Blanco.....	19	16	1	2	244	1,590	71,452
Washington.....	40	37	3	...	151	984	18,014
Weld.....	28	28	...	...	66	430	6,284
Other counties.....	92	72	17	3	2,034	13,815	1,683
Undistributed.....	36	35	1	...	419	2,733	4,787
New Mexico, total.....	447	401	38	8	4,604	25,743	347,388
Chaves.....	49	42	6	1	472	2,639	8,359
Eddy.....	83	77	6	...	404	2,259	18,262
Lea.....	170	148	17	5	2,011	11,246	266,400
Rio Arriba.....	29	28	...	1	6	34	2,697
Roosevelt.....	5	4	1	...	27	151	2,351
San Juan.....	64	58	5	1	879	4,915	35,572
Other counties.....	24	21	3	...	677	3,783	8,165
Undistributed.....	23	23	...	...	128	716	5,582
Utah, total.....	60	53	7	...	849	5,465	74,511
San Juan.....	17	13	4	...	299	1,925	59,968
Uintah.....	11	9	2	...	91	586	11,780
Other counties.....	21	20	1	...	393	2,529	2,470
Undistributed.....	11	11	...	...	66	425	293
Idaho, Arizona, and Nevada.....	25	23	2	...	88	390	95

See footnotes at end of table.



Table 2B.—Selected Statistics for the Crude Petroleum and Natural Gas Industry, by County: 1958—Continued

State and county	County establishments, number <sup>1</sup>				All employees		Value of shipments and receipts <sup>1</sup> (\$1,000)
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Payroll <sup>1</sup> (\$1,000)	
Pacific, total.....	855	750	71	34	16,720	113,026	1,020,738
Washington and Oregon.....	15	r13	r2	...	131	1,072	6
California, total.....	840	736	70	34	16,589	111,954	1,020,732
Colusa.....	3	3	...	...	1	6	1,470
Fresno.....	35	27	7	1	621	3,927	95,248
Glenn.....	11	11	...	...	24	152	6,320
Kern.....	207	179	18	10	4,848	30,726	257,390
Kings.....	12	11	1	...	179	1,132	8,925
Los Angeles.....	223	191	18	14	5,802	39,140	216,126
Orange.....	106	95	9	2	1,399	8,812	63,687
Sacramento.....	10	9	1	...	73	462	10,728
San Joaquin.....	4	4	...	...	7	44	1,510
San Luis Obispo.....	12	11	1	...	53	335	5,960
Santa Barbara.....	33	30	2	1	576	3,639	71,945
Solano.....	5	3	2	...	50	316	8,685
Tulare.....	6	6	...	...	4	25	1,379
Ventura.....	61	52	5	4	1,498	9,479	149,749
Yolo.....	8	6	1	1	245	1,549	9,435
Offshore.....	8	6	1	1	454	2,871	59,803
Other counties.....	33	31	2	...	540	7,511	40,026
Undistributed.....	63	61	2	...	215	1,828	12,345
Alaska, total.....	17	17	...	...	81	922	(D)
Third judicial division.....	12	12	...	...	60	678	(D)
First and fourth judicial divisions.....	5	5	...	...	21	244	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Revised.

<sup>1</sup>Companies operating oil and gas field properties were requested to prepare only one report for all such operations in each State. However, these reports contained data on the quantity of crude petroleum and natural gas shipped, receipts for services performed for others, and the number of employees on March 15, for each county in which properties were operated. The figures for number of establishments shown in all other tables of this report represent the counts of the State reports received. The figures for number of "county establishments" shown in this table represent the number of operations in separate counties. The "payroll" figures shown represent allocations by county of reported total payroll for operating establishments, on the basis of the reported employment on March 15, plus payroll as reported by county for separately reported central offices and related facilities. "Value of shipments and receipts" was estimated by county by multiplying the average unit values of crude petroleum and natural gas indicated by reported figures for each State by the reported county quantity figures and adding these estimated total values of oil and gas for each county to the reported receipts for services.

<sup>2</sup>Includes figures for separately reported central offices and related facilities in Minnesota.<sup>3</sup>Includes figures for separately reported central offices and related facilities in Delaware.

Table 3A.-Detailed Statistics for the Crude Petroleum and Natural

Item	United States			Middle Atlantic				
	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Total			New York	
				Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry
1 Number of establishments, total.....	11,993	10,603	1,390	870	668	202	200	183
2 With 0-19 employees.....	10,901	9,629	1,272	836	648	188	194	178
3 With 20-99 employees.....	872	782	90	27	17	10	6	5
4 With 100 employees and over.....	220	192	28	7	3	4	...	...
5 Number of wells producing during December 1958, total.....	539,077	478,039	61,038	75,535	58,952	16,583	14,024	13,074
6 Oil wells <sup>1</sup> .....	465,193	457,426	7,767	59,020	58,543	477	13,045	13,045
7 Gas wells <sup>1</sup> .....	73,884	20,613	53,271	16,515	409	16,106	979	29
8 Crude petroleum, field condensate, and drips shipped or used.....1,000 barrels..	2,352,541	2,306,688	45,853	8,154	8,121	33	1,652	1,647
9 Natural gas produced.....million cu. ft..	12,085,272	8,859,674	3,225,598	90,023	3,404	86,619	2,959	145
10 Natural gas shipped.....do....	10,070,513	7,080,650	2,989,863	81,658	1,766	79,892	2,710	26
11 Value of shipments and receipts, total.....\$1,000..	8,385,906	7,809,898	576,008	57,222	33,902	23,320	7,725	6,694
12 Crude petroleum, field condensate, and drips.....do....	7,038,575	6,899,121	139,454	33,260	33,136	124	6,692	6,682
13 Natural gas.....do....	1,286,454	853,889	432,565	23,427	470	22,957	991	7
14 Amount received or due for oil and gas field services.....do....	53,488	49,746	3,742	268	115	153	37	5
15 Other products and receipts for other services.....do....	7,389	7,142	247	267	181	86	5	...
16 Value added in mining.....do....	7,339,922	6,823,328	516,594	45,906	27,655	18,251	6,725	5,649
17 Number of persons engaged, total.....	194,321	177,139	17,182	6,520	4,651	1,869	1,323	1,221
18 Production and development workers <sup>2</sup> .....	102,445	92,358	10,087	3,940	2,644	1,296	600	527
19 All other employees.....	77,595	72,365	5,230	1,251	980	271	387	362
20 Proprietors and firm members.....	14,281	12,416	1,865	1,329	1,027	302	336	332
21 Performing manual labor.....	3,984	3,658	326	345	270	75	59	58
22 Man-hours worked by production and development workers, total.....1,000..	200,930	181,246	19,684	7,449	4,960	2,489	1,115	971
23 Operating and maintaining wells.....do....	158,637	143,789	14,848	6,714	4,780	1,934	1,078	954
24 Drilling wells and rig building.....do....	25,188	22,566	2,622	500	169	331	37	17
25 Exploration work (except drilling).....do....	11,171	10,372	799	15	...	15	...	...
26 Other work.....do....	5,934	4,519	1,415	220	11	209	...	...
27 Principal expenses designated below, total.....\$1,000..	3,545,642	3,216,495	329,147	45,409	24,494	20,915	8,145	6,391
28 Wages of production and development workers.....do....	497,571	452,947	44,624	14,739	9,662	5,077	2,191	1,882
29 Salaries of all other employees.....do....	544,615	512,911	31,704	7,950	6,476	1,474	3,426	3,101
30 Supplies.....do....	943,833	824,836	118,997	7,689	2,919	4,770	960	665
31 Gas purchased for gas lift and repressuring.....do....	8,078	7,719	359	186	166	20	31	31
32 Fuel purchased.....do....	56,204	53,083	3,121	1,633	1,140	493	275	260
33 Electric energy purchased.....do....	45,770	44,627	1,143	1,271	1,251	20	144	130
34 Contract work.....do....	1,449,571	1,320,372	129,199	11,941	2,880	9,061	1,118	322
35 Purchased machinery installed.....do....	486,021	443,166	42,855	2,579	626	1,953	296	143
36 Capital expenditures, total.....do....	1,943,493	1,707,233	236,260	13,983	2,735	11,248	1,824	506
37 Development and exploration of mineral properties.....do....	1,062,206	935,699	126,507	7,371	1,043	6,328	1,198	229
38 Other construction.....do....	197,674	150,227	47,447	6,612	1,692	4,920	626	277
39 New machinery and equipment.....do....	646,389	586,948	59,441	...	...	...	...	...
40 Used plant and equipment.....do....	37,224	34,359	2,865	...	...	...	...	...
41 Energy used.....million kwh equivalent..	137,440	128,265	9,175	1,681	1,298	383	314	309
42 Fuels produced and used for fuel at same establishment:								
43 Crude petroleum.....1,000 barrels..	649	617	32	...	...	...	...	...
Natural gas.....million cu. ft..	331,747	306,071	25,676	1,947	1,313	634	119	118
44 Fuels purchased:								
45 Fuel oil.....1,000 barrels..	1,089	1,035	54	6	3	3	...	...
46 Gas.....million cu. ft..	60,609	59,232	1,377	2,502	2,200	302	753	753
47 Other fuels.....\$1,000..	23,097	22,235	862	167	105	62	26	23
Undistributed.....do....	17,267	15,645	1,622	666	373	293	100	88
48 Electric energy purchased.....million kwh..	3,658	3,576	82	94	93	1	13	13
49 Electric energy generated and used.....do....	192	188	4	(3)	(3)	...	...	...
50 Wells drilled and completed except those drilled on contract for others:								
51 Number drilled, total.....	44,687	41,148	3,539	1,000	700	300	346	318
52 Drilled on contract for reporting companies.....	34,974	31,943	3,031	742	514	228	256	231
53 Drilled by reporting companies for own account.....	9,713	9,205	508	258	186	72	90	87
54 Footage of wells drilled, total.....1,000 ft..	185,988	169,842	16,146	2,563	1,212	1,351	695	568
55 Drilled on contract for reporting companies.....do....	151,391	137,237	14,154	2,005	923	1,082	549	427
56 Drilled by reporting companies for own account.....do....	34,597	32,605	1,992	558	289	269	146	141
Cost of drilling and equipping wells.....\$1,000..	2,371,459	2,142,482	228,977	17,588	4,024	13,564	3,373	1,773
57 Wells drilled and completed on contract for others:								
58 Number drilled.....	2,853	2,683	170	21	13	8	2	...
59 Footage of wells drilled on contract.....1,000 ft..	9,264	8,247	1,017	37	(D)	(D)	(D)	...
Costs borne by drilling contractor in drilling and equipping wells.....\$1,000..	35,847	30,102	5,745	124	(D)	(D)	(D)	...

See footnotes at end of table.



## Gas Industry, by Subindustries, Divisions, States, and Alaska: 1958

Middle Atlantic—Continued			East North Central										
Pennsylvania			Total			Ohio			Indiana	Illinois	Michigan		
Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry			Crude petroleum and natural gas industry	Crude petroleum sub-industry	
670	485	185	1,388	1,281	107	444	349	95	266	547	131	125	1
642	470	172	1,290	1,185	105	432	339	93	254	485	119	113	2
21	12	9	85	84	1	10	9	1	11	55	9	9	3
7	3	4	13	12	1	2	1	1	1	7	3	3	4
61,511	45,878	15,633	45,692	41,684	4,008	12,163	8,398	3,765	4,294	25,471	3,764	3,650	5
45,975	45,498	477	41,289	41,004	285	8,105	7,823	282	4,151	25,442	3,591	3,588	6
15,536	380	15,156	4,403	680	3,723	4,058	575	3,483	143	29	173	62	7
6,502	6,474	28	98,785	98,634	151	5,176	5,049	127	10,309	75,691	7,609	7,585	8
87,064	3,259	83,805	55,651	31,510	24,141	29,209	11,349	17,860	1,156	11,926	13,360	7,230	9
78,948	1,740	77,208	44,212	20,160	24,052	28,741	10,968	17,773	467	4,614	10,390	4,262	10
49,497	27,208	22,289	308,553	301,937	6,616	22,954	17,600	5,354	31,361	229,662	24,576	23,377	11
26,568	26,454	114	294,176	293,743	433	15,250	14,888	362	30,709	226,117	22,100	22,029	12
22,436	463	21,973	10,013	3,911	6,102	7,391	2,438	4,953	62	613	1,957	829	13
231	110	121	3,843	3,825	18	171	153	18	468	2,932	272	272	14
262	181	81	521	458	63	142	121	21	122	...	247	247	15
39,181	22,006	17,175	256,394	251,417	4,977	17,649	13,122	4,527	25,323	195,517	17,905	17,478	16
5,197	3,430	1,767	13,207	12,369	838	3,883	3,079	804	1,427	6,763	1,134	1,106	17
3,340	2,117	1,223	8,043	7,567	476	1,454	998	456	787	4,977	825	808	18
864	618	246	3,275	3,118	157	1,564	1,414	150	392	1,112	207	200	19
993	695	298	1,889	1,684	205	865	667	198	248	674	102	98	20
286	212	74	527	493	34	198	167	31	70	223	36	36	21
6,334	3,989	2,345	14,569	13,709	860	2,530	1,705	825	1,299	9,070	1,670	1,639	22
5,636	3,826	1,810	12,576	11,785	791	2,282	1,525	757	1,093	7,755	1,446	1,416	23
463	152	311	1,497	1,454	43	186	143	43	199	980	132	132	24
15	...	15	273	253	20	21	2	19	3	212	37	36	25
220	11	209	223	217	6	41	35	6	4	123	55	55	26
37,264	18,103	19,161	132,111	125,218	6,893	27,366	21,532	5,834	14,220	76,895	13,630	12,618	27
12,548	7,780	4,768	32,985	30,968	2,017	5,047	3,104	1,943	2,737	21,312	3,889	3,822	28
4,524	3,375	1,149	21,911	21,090	821	11,158	10,370	788	2,610	6,869	1,274	1,241	29
6,729	2,254	4,475	29,377	27,647	1,730	4,319	2,775	1,544	3,736	18,160	3,162	3,016	30
155	135	20	179	179	...	2	2	...	42	135	...	...	31
1,358	880	478	4,110	3,975	135	445	355	90	558	2,686	421	376	32
1,127	1,121	6	4,540	4,540	...	62	62	...	364	3,992	122	122	33
10,823	2,558	8,265	39,009	36,819	2,190	6,333	4,864	1,469	4,173	23,741	4,762	4,041	34
2,283	483	1,800	17,635	16,923	712	2,738	2,052	686	1,843	11,980	1,074	1,048	35
12,159	2,229	9,930	42,691	39,563	3,128	8,594	5,632	2,962	4,678	26,549	2,870	2,704	36
6,173	814	5,359	17,365	15,960	1,405	3,405	2,114	1,291	1,971	11,064	925	811	37
5,986	1,415	4,571	25,326	23,603	1,723	5,189	3,518	1,671	2,707	15,485	1,945	1,893	38
1,367	989	378	4,073	4,033	40	224	195	29	379	3,030	440	429	39
...	...	...	35	35	...	3	3	...	4	28	...	...	40
1,828	1,195	633	7,795	7,771	24	189	165	24	632	6,019	955	955	41
6	3	3	64	64	...	1	1	...	13	47	3	3	42
1,749	1,447	302	860	860	...	160	160	...	54	519	127	127	43
141	82	59	1,785	1,759	26	80	54	26	217	1,348	140	140	44
566	285	281	1,782	1,673	109	343	279	64	247	955	237	192	45
80	80	( <sup>3</sup> )	348	348	...	4	4	...	23	313	8	8	46
( <sup>3</sup> )	( <sup>3</sup> )	...	14	14	...	...	...	...	( <sup>3</sup> )	14	( <sup>3</sup> )	( <sup>3</sup> )	47
654	382	272	4,393	4,129	264	922	689	233	846	2,230	395	364	48
486	283	203	3,064	2,820	244	763	550	213	607	1,376	318	287	49
168	99	69	1,329	1,309	20	159	139	20	239	854	77	77	50
1,868	644	1,224	9,760	9,040	720	2,328	1,695	633	1,404	4,974	1,054	967	51
1,456	496	960	7,176	6,481	695	2,054	1,446	608	997	3,263	862	776	52
412	148	264	2,584	2,559	25	274	249	25	407	1,712	191	191	53
14,215	2,251	11,964	66,764	62,061	4,703	16,683	12,736	3,947	8,397	32,798	8,886	8,130	54
19	13	6	381	373	8	22	14	8	73	262	24	24	55
(D)	11	(D)	808	796	12	43	31	12	97	608	60	60	56
(D)	20	(D)	2,167	2,136	31	95	64	31	335	1,556	181	181	57

Table 3A.—Detailed Statistics for the Crude Petroleum and Natural Gas

Item	West North Central					
	Total			North Dakota	Nebraska	Kansas
	Crude petroleum and natural gas industry	Crude petroleum subindustry	Natural gas subindustry			
1 Number of establishments, total.....	1,088	1,050	38	53	109	905
2 With 0-19 employees.....	970	939	31	48	101	800
3 With 20-99 employees.....	102	96	6	4	7	91
4 With 100 employees and over.....	16	15	1	1	1	14
5 Number of wells producing during December 1958, total.....	44,215	41,318	2,897	1,099	1,208	41,777
6 Oil wells <sup>1</sup> .....	39,046	38,444	602	1,089	1,153	36,676
7 Gas wells <sup>1</sup> .....	5,169	2,874	2,295	10	55	5,101
8 Crude petroleum, field condensate, and drips shipped or used.....1,000 barrels..	140,498	138,798	1,700	13,689	17,900	108,788
9 Natural gas produced.....million cu. ft..	569,517	303,974	265,543	15,679	20,484	533,328
10 Natural gas shipped.....do....	555,316	290,557	264,759	14,137	16,629	524,531
11 Value of shipments and receipts, total.....\$1,000..	487,331	448,407	38,924	41,106	57,940	387,950
12 Crude petroleum, field condensate, and drips.....do....	412,027	407,423	4,604	40,029	52,038	319,628
13 Natural gas.....do....	65,796	31,525	34,271	1,050	4,955	59,789
14 Amount received or due for oil and gas field services.....do....	6,362	6,313	49	27	947	5,388
15 Other products and receipts for other services.....do....	3,146	3,146	...	...	...	3,145
16 Value added in mining.....do....	384,190	347,666	36,524	22,352	48,869	312,879
17 Number of persons engaged, total.....	12,164	11,621	543	572	642	10,474
18 Production and development workers <sup>2</sup> .....	7,789	7,448	341	316	392	7,068
19 All other employees.....	3,169	2,982	187	242	177	2,302
20 Proprietors and firm members.....	1,206	1,191	15	14	73	1,104
21 Performing manual labor.....	391	387	4	5	7	378
22 Man-hours worked by production and development workers, total.....1,000..	15,019	14,353	666	654	703	13,641
23 Operating and maintaining wells.....do....	11,609	11,067	542	402	475	10,716
24 Drilling wells and rig building.....do....	2,513	2,482	31	...	214	2,294
25 Exploration work (except drilling).....do....	537	518	19	222	2	313
26 Other work.....do....	360	286	74	30	12	318
27 Principal expenses designated below, total.....\$1,000..	213,488	203,428	10,060	37,081	19,609	153,511
28 Wages of production and development workers.....do....	33,658	31,960	1,698	1,759	1,767	30,085
29 Salaries of all other employees.....do....	20,045	18,986	1,059	1,663	1,047	14,549
30 Supplies.....do....	62,210	58,729	3,481	12,776	5,575	43,716
31 Gas purchased for gas lift and repressuring.....do....	101	101	...	...	...	101
32 Fuel purchased.....do....	8,923	8,738	185	566	724	7,613
33 Electric energy purchased.....do....	5,308	5,038	270	7	110	5,191
34 Contract work.....do....	83,243	79,876	3,367	20,310	10,386	52,256
35 Purchased machinery installed.....do....	36,032	35,011	1,021	6,087	3,691	26,228
36 Capital expenditures, total.....do....	92,676	86,752	5,924	20,992	11,415	60,034
37 Development and exploration of mineral properties.....do....	41,961	38,229	3,732	8,567	5,718	27,475
38 Other construction.....do....	50,715	48,523	2,192	12,425	5,697	32,559
39 New machinery and equipment.....do....						
40 Used plant and equipment.....do....						
41 Energy used.....million kwh equivalent..	8,751	8,507	244	409	807	7,529
42 Fuels produced and used for fuel at same establishment:						
43 Crude petroleum.....1,000 barrels..	91	84	7	58	13	20
Natural gas.....million cu. ft..	8,913	8,673	240	513	1,894	6,499
44 Fuels purchased:						
Fuel oil.....1,000 barrels..	163	161	2	5	8	150
Gas.....million cu. ft..	12,997	12,639	358	37	44	12,916
46 Other fuels.....\$1,000..	2,625	2,566	59	315	180	2,126
47 Undistributed.....do....	2,110	2,051	59	208	476	1,410
48 Electric energy purchased.....million kwh..	392	377	15	1	10	381
49 Electric energy generated and used.....do....	7	7	...	...	( <sup>3</sup> )	7
50 Wells drilled and completed except those drilled on contract for others:						
Number drilled, total.....	5,154	5,001	153	333	649	4,149
51 Drilled on contract for reporting companies.....	3,425	3,279	146	333	514	2,557
52 Drilled by reporting companies for own account.....	1,729	1,722	7	...	135	1,592
53 Footage of wells drilled, total.....1,000 ft..	18,733	18,080	653	2,321	3,758	12,594
54 Drilled on contract for reporting companies.....do....	13,084	12,459	625	2,321	3,034	7,682
55 Drilled by reporting companies for own account.....do....	5,649	5,621	28	...	724	4,912
56 Cost of drilling and equipping wells.....\$1,000..	148,923	142,493	6,430	37,099	20,341	90,951
57 Wells drilled and completed on contract for others:						
Number drilled.....	496	495	1	...	53	443
58 Footage of wells drilled on contract.....1,000 ft..	1,392	(D)	(D)	...	296	1,096
59 Costs borne by drilling contractor in drilling and equipping wells.....\$1,000..	3,856	(D)	(D)	...	763	3,093

See footnotes at end of table.



## Industry, by Subindustries, Divisions, States, and Alaska: 1958-Continued

South Atlantic						East South Central							
Total			West Virginia			Total			Kentucky			Alabama	
Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry		
854	332	522	831	317	514	569	503	66	374	325	49	42	1
827	324	503	806	311	495	513	454	59	344	300	44	38	2
20	7	13	18	5	13	48	42	6	27	23	4	4	3
7	1	6	7	1	6	8	7	1	3	2	1	...	4
23,891	8,964	14,927	23,760	8,948	14,812	20,787	16,833	3,954	18,400	1,628	16,772	238	5
9,339	8,238	1,101	9,323	8,222	1,101	16,552	16,457	95	14,454	1,437	13,017	237	6
14,552	726	13,826	14,437	726	13,711	4,235	376	3,859	3,946	191	3,755	1	7
2,472	2,223	249	(D)	1,770	249	58,718	57,657	1,061	15,050	14,895	155	5,373	8
183,728	7,341	176,387	176,716	7,297	169,419	292,190	173,103	119,087	69,974	2,467	67,507	333	9
175,760	6,253	169,507	168,792	6,253	162,539	215,309	98,445	116,864	67,423	1,912	65,511	26	10
48,581	8,728	39,853	45,742	7,715	38,027	210,267	184,345	25,922	61,814	45,771	16,043	16,417	11
7,928	7,066	862	6,915	6,053	862	167,203	164,157	3,046	44,665	44,174	491	15,612	12
40,490	1,501	38,989	38,666	1,501	37,165	38,410	15,659	22,751	16,074	641	15,433	3	13
161	159	2	161	153	...	4,326	4,221	105	789	684	105	797	14
2	2	...	...	...	...	328	308	20	286	272	14	5	15
40,498	5,996	34,502	39,382	6,148	33,234	170,708	146,556	24,152	51,640	36,186	15,454	11,357	16
5,279	1,796	3,483	5,088	1,646	3,442	6,046	4,935	1,111	3,605	2,618	987	250	17
3,228	1,173	2,055	3,128	1,100	2,028	4,125	3,338	787	2,635	1,903	732	198	18
747	176	571	661	104	557	1,268	1,061	207	456	297	159	24	19
1,304	447	857	1,299	442	857	653	536	117	514	418	96	28	20
191	79	112	191	79	112	182	151	31	130	113	17	3	21
5,933	2,228	3,705	5,712	2,056	3,656	7,914	6,528	1,386	4,880	3,608	1,272	474	22
5,129	2,082	3,047	5,019	2,017	3,002	5,309	4,657	652	3,448	2,868	580	196	23
378	38	340	378	38	340	1,194	1,072	122	655	544	111	205	24
129	80	49	46	...	46	680	649	31	67	67	...	73	25
297	28	269	269	1	268	731	150	581	710	129	581	...	26
34,821	9,452	25,369	30,597	6,508	24,089	99,101	85,415	13,686	32,598	21,462	11,136	8,635	27
10,877	4,277	6,600	10,326	3,824	6,502	17,788	14,853	2,935	9,079	6,432	2,647	1,182	28
3,497	933	2,564	2,955	418	2,537	7,897	6,630	1,267	2,331	1,444	887	173	29
10,467	1,642	8,825	9,533	1,126	8,407	28,514	23,906	4,608	9,150	5,230	3,920	3,699	30
9	9	...	9	...	...	1,358	1,358	...	8	8	...	...	31
757	300	457	690	240	450	2,119	1,987	132	782	670	112	318	32
223	112	111	223	112	111	1,148	1,086	62	602	546	56	163	33
8,991	2,179	6,812	6,861	779	6,082	40,277	35,595	4,682	10,646	7,132	3,514	3,100	34
2,738	415	2,323	2,641	380	2,261	14,178	12,680	1,498	5,043	3,715	1,328	1,810	35
15,102	1,925	13,177	13,597	1,079	12,518	48,035	38,823	9,212	16,057	7,716	8,341	4,030	36
10,013	1,202	8,811	8,790	459	8,331	25,203	19,643	5,560	8,544	3,591	4,953	673	37
5,089	723	4,366	4,807	620	4,187	22,832	19,180	3,652	7,513	4,125	3,388	3,357	38
2,058	570	1,488	2,031	545	1,486	3,712	3,303	409	733	398	335	167	41
5,295	976	4,319	5,260	941	4,319	8,824	7,615	1,209	1,343	362	981	202	42
...	...	...	...	...	...	5	5	...	...	...	...	...	43
...	...	...	...	...	...	62	61	1	16	15	1	12	44
806	656	150	806	656	150	1,392	1,392	...	262	262	...	40	45
103	12	97	97	6	91	844	778	66	354	301	53	103	46
563	238	325	502	184	318	666	605	61	341	285	56	136	47
14	6	8	14	6	8	78	74	4	38	34	4	13	48
1	(3)	(3)	1	(3)	(3)	1	1	...	1	1	...	(3)	49
736	110	626	709	102	607	2,344	2,117	227	1,853	1,640	213	76	50
609	101	508	582	93	489	1,569	1,369	200	1,186	997	189	45	51
127	9	118	127	9	118	775	748	27	667	643	24	31	52
2,187	283	1,904	2,026	215	1,811	6,636	5,822	814	2,511	1,760	751	596	53
1,897	266	1,631	1,736	198	1,538	4,977	4,260	717	1,774	1,103	671	254	54
290	17	273	290	17	273	1,659	1,562	97	737	657	80	342	55
25,293	3,227	22,066	22,724	1,741	20,983	69,602	61,358	8,244	18,407	11,108	7,299	7,069	56
18	6	12	18	6	12	139	132	7	90	83	7	8	57
40	13	27	40	13	27	589	580	9	99	90	9	92	58
144	33	111	144	33	111	3,591	3,542	49	333	284	49	615	59

Table 3A.—Detailed Statistics for the Crude Petroleum and Natural Gas

Item	East South Central—Continued			West South Central				
	Mississippi			Total			Arkansas	
	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry
1 Number of establishments, total.....	126	117	9	5,625	5,286	339	210	205
2 With 0-19 employees.....	104	97	7	5,049	4,764	285	188	185
3 With 20-99 employees.....	17	15	2	455	413	42	19	17
4 With 100 employees and over.....	5	5	...	121	109	12	3	3
5 Number of wells producing during December 1958, total....	2,124	2,029	95	264,711	251,678	13,033	4,577	4,427
6 Oil wells <sup>1</sup> .....	1,855	1,844	11	242,712	238,378	4,334	4,359	4,359
7 Gas wells <sup>1</sup> .....	269	185	84	21,999	13,300	8,699	218	68
8 Crude petroleum, field condensate, and drips shipped or used.....1,000 barrels..	38,289	37,386	903	1,429,215	1,393,618	35,597	26,890	26,890
9 Natural gas produced.....million cu. ft..	221,720	170,313	51,407	9,063,475	6,993,627	2,069,848	47,001	26,405
10 Natural gas shipped.....	147,697	96,517	51,180	7,627,130	5,757,236	1,869,894	33,131	12,892
11 Value of shipments and receipts, total.....\$1,000..	131,909	122,146	9,763	5,302,044	4,953,034	349,010	81,986	78,747
12 Crude petroleum, field condensate, and drips.....do....	106,908	104,360	2,548	4,375,321	4,264,630	110,691	76,642	76,642
13 Natural gas.....do....	22,228	15,016	7,212	893,509	657,355	236,154	4,347	1,334
14 Amount received or due for oil and gas field services.....do....	2,740	2,740	...	32,312	30,211	2,101	940	714
15 Other products and receipts for other services.....do....	33	30	3	902	838	64	57	57
16 Value added in mining.....do....	107,714	99,041	8,673	4,654,605	4,344,305	310,300	70,497	68,115
17 Number of persons engaged, total.....	2,139	2,038	101	118,572	111,583	6,989	2,152	2,050
18 Production and development workers <sup>2</sup> .....	1,285	1,233	52	58,320	54,659	3,661	1,229	1,164
19 All other employees.....	786	739	47	53,719	50,673	3,046	676	639
20 Proprietors and firm members.....	68	66	2	6,533	6,251	282	247	247
21 Performing manual labor.....	11	10	1	2,050	1,987	63	85	85
22 Man-hours worked by production and development workers, total.....1,000..	2,551	2,442	109	116,523	108,742	7,781	2,348	2,253
23 Operating and maintaining wells.....do....	1,657	1,590	67	91,819	86,247	5,572	1,955	1,877
24 Drilling wells and rig building.....do....	334	323	11	16,223	14,666	1,557	204	187
25 Exploration work (except drilling).....do....	539	508	31	6,233	5,758	475	108	108
26 Other work.....do....	21	21	...	2,248	2,071	177	81	81
27 Principal expenses designated below, total.....\$1,000..	57,715	55,257	2,458	2,315,731	2,144,238	171,493	28,373	25,360
28 Wages of production and development workers.....do....	7,509	7,228	281	293,901	274,745	19,156	5,476	5,250
29 Salaries of all other employees.....do....	5,387	5,009	378	374,226	354,769	19,457	4,160	3,971
30 Supplies.....do....	15,571	14,953	618	612,611	551,304	61,307	7,614	6,507
31 Gas purchased for gas lift and repressuring.....do....	1,347	1,347	...	5,417	5,108	309	929	929
32 Fuel purchased.....do....	1,017	997	20	30,157	28,806	1,351	893	885
33 Electric energy purchased.....do....	383	377	6	22,018	21,375	643	531	531
34 Contract work.....do....	26,501	25,346	1,155	977,401	908,131	69,270	8,770	7,287
35 Purchased machinery installed.....do....	7,317	7,155	162	320,259	290,198	30,061	3,845	3,692
36 Capital expenditures, total.....do....	27,941	27,070	871	1,320,424	1,196,193	124,231	11,093	9,199
37 Development and exploration of mineral properties.....do....	15,979	15,372	607	726,806	664,852	61,954	5,516	4,152
38 Other construction.....do....	11,962	11,698	264	593,618	531,341	62,277	5,577	5,047
39 New machinery and equipment.....do....								
40 Used plant and equipment.....do....								
41 Energy used.....million kwh equivalent..	2,812	2,738	74	89,023	84,312	4,711	1,418	1,408
42 Fuels produced and used for fuel at same establishment: Crude petroleum.....1,000 barrels..	5	5	...	197	178	19	3	3
43 Natural gas.....million cu. ft..	7,279	7,051	228	225,238	211,794	13,444	2,092	2,092
44 Fuels purchased: Fuel oil.....1,000 barrels..	34	34	...	716	674	42	7	6
45 Gas.....million cu. ft..	1,090	1,090	...	35,373	34,827	546	1,852	1,830
46 Other fuels.....\$1,000..	387	374	13	14,190	13,766	424	316	314
47 Undistributed.....do....	187	182	5	7,905	7,335	570	280	280
48 Electric energy purchased.....million kwh..	27	27	( <sup>2</sup> )	1,750	1,699	51	37	37
49 Electric energy generated and used.....do....	( <sup>3</sup> )	( <sup>3</sup> )	...	76	74	2	( <sup>3</sup> )	( <sup>3</sup> )
50 Wells drilled and completed except those drilled on contract for others: Number drilled, total.....	393	386	7	25,636	24,346	1,290	710	685
51 Drilled on contract for reporting companies.....	328	323	5	20,899	19,844	1,055	539	517
52 Drilled by reporting companies for own account.....	65	63	2	4,737	4,502	235	171	168
53 Footage of wells drilled, total.....1,000 ft..	3,511	3,452	59	118,274	111,058	7,216	2,491	8,357
54 Drilled on contract for reporting companies.....do....	2,940	2,898	42	97,646	91,593	6,053	1,803	1,684
55 Drilled by reporting companies for own account.....do....	571	554	17	20,628	19,465	1,163	688	673
56 Cost of drilling and equipping wells.....\$1,000..	44,063	43,134	929	1,620,860	1,506,795	114,065	20,242	17,777
57 Wells drilled and completed on contract for others: Number drilled.....	41	41	...	1,616	1,498	118	31	31
58 Footage of wells drilled on contract.....1,000 ft..	398	398	...	5,634	4,762	872	140	140
59 Costs borne by drilling contractor in drilling and equipping wells.....\$1,000..	2,643	2,643	...	22,194	17,614	4,580	438	438

See footnotes at end of table.



## Industry, by Subindustries, Divisions, States, and Alaska: 1958-Continued

West South Central—Continued									Mountain			
Louisiana			Oklahoma			Texas			Total			
Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	
529	445	84	1,661	1,594	67	3,225	3,042	183	1,001	903	98	1
449	384	65	1,522	1,460	62	2,890	2,735	155	887	800	87	2
61	46	15	118	113	5	257	237	20	88	78	10	3
19	15	4	21	21	...	78	70	8	26	25	1	4
22,421	18,563	3,858	63,808	62,450	1,358	173,905	166,238	7,667	29,009	24,185	4,824	5
17,737	16,664	1,073	59,983	59,787	196	160,633	157,568	3,065	22,592	22,304	288	6
4,684	1,899	2,785	3,825	2,663	1,162	13,272	8,670	4,602	6,417	1,881	4,536	7
310,954	293,683	17,271	185,262	183,975	1,287	906,109	889,070	17,039	303,990	301,543	2,447	8
2,602,463	1,863,080	739,383	790,853	656,492	134,361	5,623,158	4,447,650	1,175,508	1,068,889	669,252	399,637	9
2,205,733	1,576,037	629,696	635,182	504,853	130,329	4,753,084	3,663,454	1,089,630	945,567	553,242	392,325	10
1,321,899	1,163,021	158,878	606,756	587,410	19,346	3,291,403	3,123,856	167,547	951,170	896,491	54,679	11
1,002,643	947,237	55,406	545,058	541,290	3,768	2,750,978	2,699,461	51,517	852,034	845,144	6,890	12
313,919	211,141	102,778	58,226	42,931	15,295	517,017	401,949	115,068	96,539	49,898	46,641	13
5,097	4,403	694	3,472	3,189	283	22,803	21,905	898	2,345	1,207	1,138	14
240	240	...	...	...	...	605	541	64	252	242	10	15
1,181,307	1,042,579	138,728	523,960	507,573	16,387	2,878,841	2,726,038	152,803	841,883	788,708	53,175	16
21,062	18,526	2,536	24,783	24,213	570	70,575	66,794	3,781	15,129	13,287	1,842	17
11,973	10,462	1,511	12,285	12,074	211	32,833	30,959	1,874	7,121	5,864	1,257	18
8,559	7,582	977	10,648	10,340	308	33,836	32,112	1,724	7,380	6,854	526	19
530	482	48	1,850	1,799	51	3,906	3,723	183	628	569	59	20
119	110	9	581	572	9	1,265	1,220	45	143	136	7	21
25,227	21,712	3,515	22,999	22,623	376	65,949	62,154	3,795	14,172	11,760	2,412	22
18,296	15,733	2,563	19,624	19,330	294	51,944	49,307	2,637	9,992	8,038	1,954	23
4,525	3,886	639	1,950	1,909	41	9,544	8,684	860	961	790	171	24
2,114	1,860	254	928	919	9	3,083	2,871	212	2,937	2,749	188	25
292	233	59	497	465	32	1,378	1,292	86	282	183	99	26
670,906	600,789	70,117	329,959	315,873	14,086	1,286,493	1,202,216	84,277	410,384	338,393	71,991	27
71,210	62,538	8,672	53,248	52,368	880	163,967	154,589	9,378	38,005	32,083	5,922	28
59,698	52,989	6,709	72,759	70,724	2,035	237,609	227,085	10,524	51,681	48,423	3,258	29
215,459	190,559	24,900	73,846	68,908	4,938	315,692	285,330	30,362	118,112	85,780	32,332	30
738	608	130	436	433	3	3,314	3,138	176	423	393	30	31
5,856	5,401	455	6,043	5,884	159	17,365	16,636	729	5,460	5,208	252	32
1,535	1,319	216	4,957	4,935	22	14,995	14,590	405	4,046	4,009	37	33
316,410	287,375	29,035	118,670	112,621	6,049	533,551	500,848	32,703	192,657	162,497	30,160	34
87,219	71,477	15,742	43,943	42,538	1,405	185,252	172,491	12,761	63,441	59,191	4,250	35
486,625	436,297	50,328	165,099	155,482	9,617	657,607	595,215	62,392	274,852	209,295	65,557	36
284,511	257,202	27,309	94,794	90,795	3,999	341,985	312,703	29,282	150,114	113,667	36,447	37
202,114	179,095	23,019	70,305	64,687	5,618	315,622	282,512	33,110	124,738	95,628	29,110	38
21,818	19,370	2,448	13,529	12,839	690	52,258	50,695	1,563	12,695	11,210	1,485	39
1	1	...	69	50	19	124	124	...	127	127	...	40
59,731	52,343	7,388	29,831	27,823	2,008	133,584	129,536	4,048	30,750	26,162	4,588	41
342	320	22	53	53	...	314	295	19	26	24	2	42
6,225	6,082	143	8,133	8,133	...	19,163	18,782	381	4,705	4,684	21	43
2,186	2,043	143	3,689	3,600	89	7,999	7,809	190	2,296	2,226	70	44
1,176	1,019	157	1,169	1,100	69	5,280	4,936	344	2,533	2,359	174	45
96	80	16	426	425	1	1,191	1,157	34	318	315	3	46
28	28	(3)	5	5	...	43	41	2	42	40	2	47
3,189	2,904	285	5,815	5,660	155	15,922	15,097	825	4,018	3,413	605	48
2,626	2,380	246	4,610	4,499	111	13,124	12,448	676	3,692	3,111	581	49
563	524	39	1,205	1,161	44	2,798	2,649	149	326	302	24	50
27,190	24,818	2,372	19,404	18,704	706	69,189	65,179	4,010	20,812	17,715	3,097	51
21,800	19,897	1,903	16,498	15,941	557	57,545	54,071	3,474	19,240	16,253	2,987	52
5,390	4,921	469	2,906	2,763	143	11,644	11,108	536	1,572	1,462	110	53
663,935	608,159	55,776	193,482	184,306	9,176	743,201	696,553	46,648	299,300	244,065	55,235	54
109	109	...	389	389	...	1,087	969	118	89	73	16	55
520	520	...	1,027	1,027	...	3,947	3,075	872	343	276	67	56
2,063	2,063	...	3,082	3,082	...	16,611	12,031	4,580	2,075	1,225	850	57

Table 3A.—Detailed Statistics for the Crude Petroleum and Natural Gas

Item	Mountain—Continued							
	Montana		Wyoming			Colorado		
	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry
1 Number of establishments, total.....	172	162	209	201	8	222	200	22
2 With 0-19 employees.....	158	150	181	175	6	188	169	19
3 With 20-99 employees.....	12	10	22	20	2	28	25	3
4 With 100 employees and over.....	2	2	6	6	...	6	6	...
5 Number of wells producing during December 1958, total....	4,558	3,496	6,347	6,154	193	2,413	2,228	185
6 Oil wells <sup>1</sup> .....	3,417	3,413	6,057	6,038	19	2,093	2,071	22
7 Gas wells <sup>1</sup> .....	1,141	83	290	116	174	320	157	163
8 Crude petroleum, field condensate, and drips shipped or used.....1,000 barrels..	28,386	28,380	108,209	107,809	400	48,113	48,033	80
9 Natural gas produced.....million cu. ft..	32,875	9,711	157,578	98,292	59,286	132,277	96,832	35,445
10 Natural gas shipped.....do.....	30,121	7,604	124,846	65,958	58,888	78,253	42,981	35,272
11 Value of shipments and receipts, total.....\$1,000..	77,729	76,328	296,191	286,906	9,285	155,256	149,004	6,252
12 Crude petroleum, field condensate, and drips.....do....	75,367	75,347	281,526	280,331	1,195	143,027	142,805	222
13 Natural gas.....do.....	2,095	718	14,225	6,200	8,025	11,788	5,762	6,026
14 Amount received or due for oil and gas field services.....do....	199	199	348	283	65	437	437	...
15 Other products and receipts for other services.....do....	68	64	92	92	...	4	...	4
16 Value added in mining.....do.....	63,121	61,790	272,602	264,833	7,769	132,435	127,094	5,341
17 Number of persons engaged, total.....	1,775	1,643	3,794	3,661	133	3,775	3,562	213
18 Production and development workers <sup>2</sup> .....	751	666	1,913	1,833	80	1,141	1,024	117
19 All other employees.....	846	801	1,797	1,751	46	2,524	2,446	78
20 Proprietors and firm members.....	178	176	84	77	7	110	92	18
21 Performing manual labor.....	44	44	23	19	4	23	22	1
22 Man-hours worked by production and development workers, total.....1,000..	1,422	1,253	3,895	3,730	165	2,267	1,995	272
23 Operating and maintaining wells.....do.....	907	781	2,922	2,876	46	1,516	1,310	206
24 Drilling wells and rig building.....do.....	84	84	148	83	65	133	133	...
25 Exploration work (except drilling).....do.....	358	358	758	723	35	552	520	32
26 Other work.....do.....	73	30	67	48	19	66	32	34
27 Principal expenses designated below, total.....\$1,000..	36,229	34,903	83,648	72,211	11,437	64,613	56,557	8,056
28 Wages of production and development workers.....do....	4,041	3,609	10,763	10,278	485	6,290	5,690	600
29 Salaries of all other employees.....do.....	5,841	5,573	13,099	12,733	366	18,054	17,473	581
30 Supplies.....do.....	10,285	9,943	20,171	16,244	3,927	13,727	9,831	3,896
31 Gas purchased for gas lift and repressuring.....do....	3	3	291	291	...	4	4	...
32 Fuel purchased.....do.....	693	689	1,506	1,492	14	1,213	1,142	71
33 Electric energy purchased.....do.....	331	315	1,928	1,915	13	612	612	...
34 Contract work.....do.....	15,035	14,771	35,890	29,258	6,632	24,713	21,805	2,908
35 Purchased machinery installed.....do.....	4,748	4,634	12,793	11,627	1,166	15,611	14,808	803
36 Capital expenditures, total.....do.....	16,487	15,817	48,990	38,754	10,236	33,059	26,292	6,767
37 Development and exploration of mineral properties.....do....	8,281	7,802	27,569	19,982	7,587	12,554	8,983	3,571
38 Other construction.....do.....	8,206	8,015	21,421	18,772	2,649	20,505	17,309	3,196
39 New machinery and equipment.....do.....								
40 Used plant and equipment.....do.....								
41 Energy used.....million kwh equivalent..	1,064	866	3,928	3,867	61	2,848	2,784	64
Fuels produced and used for fuel at same establishment:								
42 Crude petroleum.....1,000 barrels..	59	59	39	39	...	13	...	13
43 Natural gas.....million cu. ft..	1,569	929	9,041	8,859	182	7,970	7,820	150
Fuels purchased:								
44 Fuel oil.....1,000 barrels..	3	3	9	9	...	3	3	...
45 Gas.....million cu. ft..	999	999	1,916	1,912	4	130	130	...
46 Other fuels.....\$1,000..	374	374	604	592	12	498	463	35
47 Undistributed.....do.....	221	221	645	644	1	675	639	36
48 Electric energy purchased.....million kwh..	20	19	163	167	1	46	46	...
49 Electric energy generated and used.....do.....	2	2	29	28	( <sup>3</sup> )	6	6	( <sup>3</sup> )
Wells drilled and completed except those drilled on contract for others:								
50 Number drilled, total.....	319	315	701	619	82	806	740	66
51 Drilled on contract for reporting companies.....	295	291	634	556	78	741	681	60
52 Drilled by reporting companies for own account.....	24	24	67	63	4	65	59	6
53 Footage of wells drilled, total.....1,000 ft..	1,813	1,793	3,692	3,191	501	4,193	3,857	336
54 Drilled on contract for reporting companies.....do....	1,678	1,658	3,365	2,891	474	3,865	3,557	308
55 Drilled by reporting companies for own account.....do....	135	135	327	300	27	328	300	28
56 Cost of drilling and equipping wells.....\$1,000..	26,636	26,113	54,532	43,605	10,927	32,598	27,998	4,600
Wells drilled and completed on contract for others:								
57 Number drilled.....	14	14	3	3	...	4	4	...
58 Footage of wells drilled on contract.....1,000 ft..	48	48	25	25	...	24	24	...
59 Costs borne by drilling contractor in drilling and equipping wells.....\$1,000..	110	110	198	198	...	208	208	...

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>For wells that produced both oil and gas, respondents were requested to classify the wells according to the more valuable total product; classifying "distillate" wells as oil wells if the value of all liquids produced was greater than the value of all gas produced, but otherwise classifying them as gas wells.



## Industry, by Subindustries, Divisions, States, and Alaska: 1958-Continued

Mountain—Continued						Pacific					Alaska	
New Mexico			Idaho, Arizona, Utah, and Nevada			Total			California			
Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry	Natural gas sub-industry	Crude petroleum and natural gas industry	Crude petroleum sub-industry		
314	266	48	84	74	10	598	580	18	583	565	17	1
284	239	45	76	67	9	529	515	14	516	502	16	2
20	18	2	6	5	1	47	45	2	45	43	1	3
10	9	1	2	2	...	22	20	2	22	20	...	4
15,102	11,776	3,326	589	531	58	35,237	34,425	812	35,236	34,424	2	5
10,485	10,254	231	540	528	12	34,643	34,058	585	34,642	34,057	2	6
4,617	1,522	3,095	49	3	46	594	367	227	594	367	...	7
94,843	93,486	1,357	24,439	23,835	604	310,709	306,094	4,615	310,707	306,092	(D)	8
717,343	453,072	264,271	28,816	11,345	17,471	761,799	677,463	84,336	761,799	677,463	...	9
694,427	435,832	258,595	17,920	867	17,053	425,561	352,991	72,570	425,561	352,991	...	10
347,388	313,961	33,427	74,606	70,292	4,314	1,020,738	983,054	37,684	1,020,732	983,048	(D)	11
280,194	276,599	3,595	71,920	70,062	1,858	896,626	883,822	12,804	896,620	883,816	(D)	12
65,833	37,074	28,759	2,598	144	2,454	118,270	93,570	24,700	118,270	93,570	...	13
1,361	288	1,073	...	...	...	3,871	3,695	176	3,871	3,695	...	14
...	...	...	88	86	2	1,971	1,967	4	1,971	1,967	...	15
314,428	280,831	33,597	59,297	54,160	5,137	945,738	911,025	34,713	946,540	911,827	(D)	16
4,835	3,568	1,267	950	853	97	17,404	16,897	507	17,272	16,765	81	17
2,779	1,865	914	537	476	61	9,879	9,665	214	9,858	9,644	40	18
1,826	1,502	324	387	354	33	6,786	6,521	265	6,677	6,412	41	19
230	201	29	26	23	3	739	711	28	737	709	...	20
51	49	2	2	2	...	155	155	...	155	155	...	21
5,496	3,812	1,684	1,092	970	122	19,351	18,966	385	19,310	18,925	79	22
4,389	2,837	1,552	258	234	24	15,489	15,133	356	15,489	15,133	...	23
471	365	106	125	125	...	1,922	1,895	27	1,922	1,895	79	24
576	551	25	693	597	96	367	365	2	326	324	...	25
60	59	1	16	14	2	1,573	1,573	...	1,573	1,573	...	26
168,422	123,109	45,313	57,472	51,613	5,859	294,597	285,857	8,740	292,334	283,594	7,774	27
13,975	9,876	4,099	2,936	2,630	306	55,618	54,399	1,219	55,517	54,298	296	28
11,768	10,017	1,751	2,919	2,627	292	57,408	55,604	1,804	56,437	54,633	626	29
53,762	32,600	21,162	20,167	17,162	3,005	74,853	72,909	1,944	74,688	72,744	967	30
125	95	30	...	...	...	405	405	...	405	405	...	31
1,674	1,519	155	374	366	8	3,045	2,929	116	2,989	2,873	173	32
1,044	1,036	8	131	131	...	7,216	7,216	...	7,211	7,211	16	33
86,074	67,966	18,108	30,945	28,697	2,248	96,052	92,395	3,657	95,087	91,430	5,696	34
22,494	20,738	1,756	7,795	7,384	411	29,159	28,122	1,037	29,147	28,110	865	35
132,213	90,824	41,389	44,103	37,608	6,495	135,730	131,947	3,783	135,335	131,552	4,141	36
76,308	52,667	23,641	25,402	24,233	1,169	83,367	81,101	2,266	82,988	80,722	3,409	37
55,905	38,157	17,748	18,701	13,375	5,326	52,363	50,846	1,517	52,347	50,830	155	38
4,315	3,156	1,159	540	537	3	15,447	15,032	415	15,433	15,018	159	39
13	13	...	9	9	...	194	188	6	194	188	418	40
10,979	7,363	3,616	1,191	1,191	...	42,985	41,767	1,218	42,985	41,767	...	41
8	6	2	3	3	...	52	48	4	52	48	...	42
1,466	1,453	13	194	190	4	1,974	1,974	...	1,974	1,974	...	43
686	667	19	134	130	4	1,083	1,019	64	1,083	1,019	...	44
791	660	131	201	195	6	1,042	1,011	31	986	955	...	45
80	79	1	9	9	...	664	664	...	664	664	( <sup>3</sup> )	46
2	1	1	3	3	...	51	51	...	51	51	(D)	47
1,809	1,376	433	383	363	20	1,406	1,332	74	1,395	1,321	5	48
1,669	1,248	421	353	335	18	974	905	69	963	894	4	49
140	128	12	30	28	2	432	427	5	432	427	1	50
8,968	6,829	2,139	2,146	2,045	101	7,023	6,632	391	6,957	6,566	53	51
8,357	6,263	2,094	1,974	1,883	91	5,366	5,002	364	5,300	4,936	(D)	52
611	566	45	172	162	10	1,657	1,630	27	1,657	1,630	(D)	53
137,915	101,362	36,553	47,619	44,987	2,632	123,129	118,459	4,670	121,806	117,136	4,005	54
68	52	16	...	...	...	93	93	...	93	93	...	55
246	179	67	...	...	...	421	421	...	421	421	...	56
1,559	709	850	...	...	...	1,696	1,696	...	1,696	1,696	...	57

<sup>2</sup>Represents an average for the year as computed in individual reports. The totals of the four monthly figures obtained for the United States are:

	March	May	August	November
Crude petroleum and natural gas industry.....	102,366	103,265	105,100	101,260
Crude petroleum subindustry.....	92,511	93,224	94,499	91,204
Natural gas subindustry.....	9,855	10,041	10,601	10,056

<sup>3</sup>Less than one-half of the unit of measure specified.

Table 3B.-Detailed Statistics for the Crude Petroleum and Natural Gas Industry

	Item	All types of operations	Producing operations		
			All producing operations		
			Total	With drilling	Without drilling
1	Number of establishments, total.....	11,993	11,277	4,422	6,855
2	With 0-19 employees.....	10,901	10,200	3,471	6,729
3	With 20-99 employees.....	872	857	735	122
4	With 100 employees and over.....	220	220	216	4
5	Number of wells producing during December 1958, total.....	539,077	539,077	422,562	116,515
6	Oil wells <sup>1</sup> .....	465,193	465,193	363,569	101,624
7	Gas wells <sup>1</sup> .....	73,884	73,884	58,993	14,891
8	Crude petroleum, field condensate, and drips shipped or used.....1,000 barrels..	2,352,541	2,352,541	2,158,763	193,778
9	Natural gas produced.....million cu. ft..	12,085,272	12,085,272	11,261,720	823,552
10	Value of shipments and receipts, total.....\$1,000..	8,385,906	8,385,906	7,731,412	654,494
11	Crude petroleum, field condensate, and drips.....do....	7,038,575	7,038,575	6,469,651	568,924
12	Natural gas.....do....	1,286,454	1,286,454	1,203,303	83,151
13	Amount received or due for oil and gas field services.....do....	53,488	53,488	51,257	2,231
14	Other products and receipts for other services.....do....	7,389	7,389	7,201	188
15	Value added in mining.....do....	7,339,922	7,366,804	6,803,657	563,147
16	Number of persons engaged, total.....	194,321	191,737	161,663	30,074
17	Production and development workers, average for year.....	102,445	101,651	84,838	16,813
18	March.....	102,366	101,616	85,203	16,413
19	May.....	103,265	102,434	85,038	17,396
20	August.....	105,100	104,210	86,877	17,333
21	November.....	101,260	100,495	83,497	16,998
22	All other employees.....	77,595	76,564	72,248	4,316
23	Proprietors and firm members.....	14,281	13,522	4,577	8,945
24	Performing manual labor.....	3,984	3,793	1,683	2,110
25	Man-hours worked by production and development workers, total.....1,000..	200,930	199,466	170,696	28,770
26	Operating and maintaining wells.....do....	158,637	158,605	130,650	27,955
27	Drilling wells and rig building.....do....	25,188	24,733	24,733	...
28	Exploration work (except drilling).....do....	11,171	10,243	10,024	219
29	Other work.....do....	5,934	5,885	5,289	596
30	Principal expenses designated below, total.....\$1,000..	3,545,642	3,489,608	3,301,964	187,644
31	Wages of production and development workers.....do....	497,571	494,061	437,918	56,143
32	Salaries of all other employees.....do....	544,615	537,738	513,278	24,460
33	Supplies.....do....	943,833	932,619	884,663	47,956
34	Gas purchased for gas lift and repressuring.....do....	8,078	8,078	7,587	491
35	Fuel purchased.....do....	56,204	53,633	42,863	10,770
36	Electric energy purchased.....do....	45,770	45,683	38,425	7,258
37	Contract work.....do....	1,449,571	1,417,796	1,377,230	40,566
38	Purchased machinery installed.....do....	486,021	483,801	465,151	18,650
39	Capital expenditures, total.....do....	1,943,493	1,922,508	1,888,164	34,344
40	Development and exploration of mineral properties.....do....	1,062,206	1,049,968	1,040,713	9,255
41	Other construction.....do....	197,674	191,740	184,690	7,050
42	New machinery and equipment.....do....	646,389	643,683	632,671	11,012
43	Used plant and equipment.....do....	37,224	37,117	30,090	7,027
44	Energy used.....million kwh equivalent..	137,440	136,777	125,442	11,335
	Fuels produced and used for fuel at same establishment:				
45	Crude petroleum.....1,000 barrels..	649	649	569	80
46	Natural gas.....million cu. ft..	331,747	331,742	309,773	21,969
	Fuels purchased:				
47	Fuel oil.....1,000 barrels..	1,089	1,081	1,036	45
48	Gas.....million cu. ft..	60,609	60,586	56,103	4,483
49	Other fuels.....\$1,000..	23,097	22,878	21,374	1,504
50	Undistributed.....do....	17,267	14,951	6,690	8,261
51	Electric energy purchased.....million kwh..	3,658	3,652	3,111	541
52	Electric energy generated and used.....do....	192	192	187	5

<sup>1</sup>For wells that produced both oil and gas, respondents were requested to classify the wells according to the more valuable total product; classifying "distillate" wells as oil wells if the value of all liquids produced was greater than the value of all gas produced, but otherwise classifying them as gas wells.



for the United States, by Type of Operation: 1958

Producing operations—Continued									Non- producing operations	
Oil well operations only			Oil and gas well operations			Gas well operations only				
Total	With drilling	Without drilling	Total	With drilling	Without drilling	Total	With drilling	Without drilling		
8,272	2,823	5,449	2,040	1,396	644	965	203	762	716	1
7,857	2,485	5,372	1,417	816	601	926	170	756	701	2
384	310	74	443	401	42	30	24	6	15	3
31	28	3	180	179	1	9	9	...	...	4
207,926	118,935	88,991	302,119	283,418	18,701	29,032	20,209	8,823	...	5
207,926	118,935	88,991	257,267	244,634	12,633	...	...	...	...	6
...	...	...	44,852	38,784	6,068	29,032	20,209	8,823	...	7
543,365	386,030	157,335	1,807,105	1,771,370	35,735	2,071	1,363	708	...	8
468,875	294,035	174,840	10,825,996	10,430,954	395,042	790,401	536,731	253,670	...	9
1,647,455	1,175,596	471,859	6,607,291	6,464,428	142,863	131,160	91,388	39,772	...	10
1,592,992	1,132,155	460,837	5,439,312	5,333,384	105,928	6,271	4,112	2,159	...	11
25,274	15,963	9,311	1,137,209	1,100,941	36,268	123,971	86,399	37,572	...	12
27,910	26,369	1,541	24,702	24,049	653	876	839	37	...	13
1,279	1,109	170	6,068	6,054	14	42	38	4	...	14
1,296,847	893,719	403,128	5,961,741	5,837,226	124,515	108,216	72,712	35,504	( <sup>2</sup> )	15
55,444	33,113	22,331	129,366	124,281	5,085	6,927	4,269	2,658	2,584	16
33,880	21,215	12,665	63,835	61,052	2,783	3,936	2,571	1,365	794	17
33,102	20,869	12,233	64,606	61,773	2,833	3,908	2,561	1,347	750	18
34,442	21,307	13,135	64,083	61,211	2,872	3,909	2,520	1,389	831	19
35,119	22,047	13,072	65,035	62,183	2,852	4,056	2,647	1,409	890	20
34,372	21,560	12,812	62,143	59,351	2,792	3,980	2,586	1,394	765	21
11,321	8,674	2,647	63,542	62,173	1,369	1,701	1,401	300	1,031	22
10,243	3,224	7,019	1,989	1,056	933	1,290	297	993	759	23
3,048	1,304	1,744	533	328	205	212	51	161	191	24
62,064	40,675	21,389	130,130	124,894	5,236	7,272	5,127	2,145	1,464	25
51,372	30,405	20,967	101,719	96,780	4,939	5,514	3,465	2,049	32	26
7,890	7,890	...	15,622	15,622	...	1,221	1,221	...	455	27
1,403	1,296	107	8,651	8,551	100	189	177	12	928	28
1,399	1,084	315	4,138	3,941	197	348	264	84	49	29
710,318	575,906	134,412	2,690,466	2,649,055	41,411	88,824	77,003	11,821	56,034	30
130,182	88,710	41,472	348,318	337,519	10,799	15,561	11,689	3,872	3,510	31
70,891	56,308	14,583	457,839	449,388	8,451	9,008	7,582	1,426	6,877	32
195,262	160,975	34,287	706,988	696,659	10,329	30,369	27,029	3,340	11,214	33
996	641	355	7,080	6,946	134	2	...	2	...	34
23,652	14,806	8,846	28,588	27,253	1,335	1,393	804	589	2,571	35
15,930	9,817	6,113	29,481	28,528	953	272	80	192	87	36
273,405	244,649	28,756	1,112,172	1,102,762	9,410	32,219	29,819	2,400	31,775	37
111,780	98,022	13,758	363,028	359,314	3,714	8,993	7,815	1,178	2,220	38
270,417	247,033	23,384	1,601,787	1,594,260	7,527	50,304	46,871	3,433	20,985	39
112,433	106,058	6,375	909,232	907,002	2,230	28,303	27,653	650	12,238	40
27,894	23,069	4,825	154,951	154,058	893	8,895	7,563	1,332	5,934	41
115,266	108,974	6,292	515,676	512,306	3,370	12,741	11,391	1,350	2,706	42
14,824	8,932	5,892	21,928	20,894	1,034	365	264	101	107	43
23,215	15,881	7,334	111,921	109,203	2,718	1,641	358	1,283	663	44
292	216	76	357	353	4	...	...	...	...	45
39,433	27,711	11,722	288,559	281,861	6,698	3,750	201	3,549	5	46
211	169	42	854	852	2	16	15	1	8	47
13,390	9,912	3,478	46,697	45,829	868	499	362	137	23	48
8,583	7,344	1,239	14,068	13,826	242	227	204	23	219	49
11,111	4,325	6,786	2,919	1,949	970	921	416	505	2,316	50
1,181	732	449	2,452	2,375	77	19	4	15	6	51
56	53	3	136	134	2	( <sup>3</sup> )	( <sup>3</sup> )	...	( <sup>3</sup> )	52

<sup>2</sup>Not shown since the cost of supplies, gas purchased for gas lift and repressuring, purchased fuel and electricity, contract work, and purchased machinery installed exceeded capital expenditures.

<sup>3</sup>Less than one-half of the unit of measure specified.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 4.—Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1311	CRUDE PETROLEUM AND NATURAL GAS:											
	Number of establishments.....	11,993	8,575	1,369	957	638	234	133	45	23	16	3
	All employees:											
	Number.....	<sup>1</sup> 180,040	12,043	9,056	12,946	19,062	16,153	21,462	15,976	15,886	24,479	9,934
	Payroll.....\$1,000..	<sup>1</sup> 1,042,186	37,679	37,365	57,537	97,885	91,753	130,959	96,988	98,421	156,544	62,787
	Production and develop- ment workers:											
	Number.....	102,445	11,007	6,640	9,320	12,927	10,348	12,689	9,305	10,521	14,143	5,545
	Man-hours.....1,000..	200,930	16,320	12,645	18,003	26,052	22,256	26,442	19,033	21,798	27,845	10,536
	Wages.....\$1,000..	497,571	32,509	24,334	35,438	56,936	49,587	68,892	51,915	61,156	83,375	33,429
	Value added in mining..do....	7,339,922	304,465	252,031	351,544	631,159	547,810	1,101,838	950,782	1,050,528	1,429,482	720,283
	Value of shipments and receipts.....do....	8,385,906	470,987	332,680	469,995	780,640	658,579	1,223,908	1,018,668	1,100,567	1,562,780	767,102
	Capital expenditures.....do....	1,943,493	115,771	64,161	130,707	177,860	194,886	275,796	230,720	220,663	383,115	149,814
	Crude Petroleum Subindustry:											
	Number of establishments...	10,603	7,517	1,243	869	580	202	117	36	21	15	3
	All employees:											
	Number.....	<sup>1</sup> 164,723	10,646	8,227	11,767	17,274	14,018	19,151	13,116	<u>38,001</u>	(D)	9,934
	Payroll.....\$1,000..	<sup>1</sup> 965,858	33,899	33,996	51,832	88,661	80,186	119,060	82,104	<u>242,255</u>	(D)	62,787
	Production and develop- ment workers:											
	Number.....	92,358	9,724	6,078	8,594	11,824	8,938	10,924	7,853	<u>22,878</u>	(D)	5,545
	Man-hours.....1,000..	181,246	14,474	11,594	16,552	23,819	19,367	22,875	16,190	<u>45,839</u>	(D)	10,536
	Wages.....\$1,000..	452,947	29,275	22,313	32,209	52,024	43,151	60,225	44,824	<u>135,497</u>	(D)	33,429
	Value added in mining.....do....	6,823,328	265,003	227,741	308,165	564,413	452,602	983,324	873,742	<u>2,428,055</u>	(D)	720,283
	Value of shipments and receipts.....do....	7,809,898	417,723	299,247	419,283	704,434	557,138	1,100,922	938,881	<u>2,605,168</u>	(D)	767,102
	Capital expendi- tures.....do....	1,707,233	94,941	55,278	101,011	154,558	151,651	244,169	196,291	<u>559,520</u>	(D)	149,814
	Natural Gas Subindustry:											
	Number of establishments...	1,390	1,058	126	88	58	32	16	9	2	1	...
	All employees:											
	Number.....	<sup>1</sup> 15,317	1,397	829	1,179	1,788	2,135	2,311	2,860	<u>2,364</u>	(D)	...
	Payroll.....\$1,000..	<sup>1</sup> 76,328	3,780	3,369	5,705	9,224	11,567	11,899	14,884	<u>12,710</u>	(D)	...
	Production and develop- ment workers:											
	Number.....	10,087	1,283	562	726	1,103	1,410	1,765	1,452	<u>1,786</u>	(D)	...
	Man-hours.....1,000..	19,684	1,846	1,051	1,451	2,233	2,889	3,567	2,843	<u>3,804</u>	(D)	...
	Wages.....\$1,000..	44,624	3,234	2,021	3,229	4,912	6,436	8,667	7,091	<u>9,034</u>	(D)	...
	Value added in mining.....do....	516,594	39,462	24,290	43,379	66,746	95,208	118,514	77,040	<u>51,955</u>	(D)	...
	Value of shipments and receipts.....do....	576,008	53,264	33,433	50,712	76,206	101,441	122,986	79,787	<u>58,179</u>	(D)	...
	Capital expendi- tures.....do....	236,260	20,830	8,883	29,696	23,302	43,235	31,627	34,429	<u>44,258</u>	(D)	...
	Number of producing establishments by type of operation, total.....	11,277	7,949	1,329	922	629	228	133	45	23	16	3
	Crude petroleum subindustry.....	9,941	6,935	1,207	838	571	198	117	36	21	15	3
	Natural gas sub- industry.....	1,336	1,014	122	84	58	30	16	9	2	1	...
	With drilling, total.....	4,422	2,129	702	640	523	212	130	44	23	16	3
	Crude petroleum subindustry.....	4,024	1,939	647	585	479	185	115	35	21	15	3
	Natural gas sub- industry.....	398	190	55	55	44	27	15	9	2	1	...
	Without drilling, total..	6,855	5,820	627	282	106	16	3	1	...	...	...
	Crude petroleum subindustry.....	5,917	4,996	560	253	92	13	2	1	...	...	...
	Natural gas sub- industry.....	938	824	67	29	14	3	1	...	...	...	...
	Oil well operations only, total.....	8,272	6,356	944	557	319	65	24	5	2	...	...
	With drilling.....	2,823	1,665	467	353	252	58	22	4	2	...	...
	Without drilling.....	5,449	4,691	477	204	67	7	2	1	...	...	...
	Oil and gas well operations, total.....	2,040	780	316	321	287	156	105	35	21	16	3
	With drilling.....	1,396	344	210	262	253	148	104	35	21	16	3
	Without drilling.....	644	436	106	59	34	8	1	...	...	...	...
	Gas well operations only, total.....	965	813	69	44	23	7	4	5	...	...	...
	With drilling.....	203	120	25	25	18	6	4	5	...	...	...
	Without drilling.....	762	693	44	19	5	1	...	...	...	...	...

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Includes figures for separately reported central offices and related facilities. These were not included in the figures distributed by size of establishment.



Table 5A.—Industry-Product Analysis, Summary of Industry Shipments and Receipts and Shipments of Primary Products for the United States: 1958 and 1954

Ind. code	Industry or subindustry and year	Value of shipments and receipts of establishments classified in the industry or subindustry					Value of shipments of primary products		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total (produced in all industries)	Produced in this industry or sub-industry	Produced in other industries or sub-industries
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1311	Crude petroleum and natural gas industry.....1958..	8,385,906	8,325,029	121	59,436	1,320	8,376,465	8,325,029	51,436
	.....1954..	7,070,097	7,035,108	241	34,713	35	7,095,624	7,035,108	60,516
	Crude petroleum subindustry.....1958..	7,809,898	6,899,121	854,006	55,480	1,291	7,082,194	6,899,121	183,073
	.....1954..	6,642,452	6,014,557	595,165	32,730	...	6,152,130	6,014,557	137,573
	Natural gas subindustry.....1958..	576,008	432,565	139,458	3,956	29	1,294,271	432,565	861,706
	.....1954..	427,645	343,960	81,667	1,983	35	943,494	343,960	599,534

Table 5B.—Classes of Primary Products by Industry and Subindustry: 1958

Ind. code	Industry group, industry, or subindustry	Crude petroleum, field condensate, and drips		Natural gas	
		Quantity shipped or used in lease operations (1,000 barrels)	Value of shipments	Quantity produced	Value of shipments
			(\$1,000)	(million cu. ft.)	(\$1,000)
13	Oil and gas extraction industries, total.....	2,367,809	7,082,194	12,152,585	1,294,271
1311	Crude petroleum and natural gas industry, total.....	2,352,541	7,038,575	12,085,272	1,286,454
	Crude petroleum subindustry.....	2,306,688	6,899,121	8,859,674	853,889
	Natural gas subindustry.....	45,853	139,454	3,225,598	432,565
138	Oil and gas field services industries, total.....	15,268	43,619	67,313	7,817
1381	Drilling oil and gas wells industry.....	14,722	42,027	62,890	7,488
1382	Oil and gas exploration services industry.....	8	24	...	...
1389	Oil and gas field services, nec, industry, total.....	538	1,568	4,423	329
	Well surveying, well logging, and cementing wells subindustry.....	8	24	...	...
	Miscellaneous oil and gas field services subindustry.....	530	1,591	4,423	329

<sup>1</sup>Revised.

Table 6A.—Primary Products of the Crude Petroleum and Natural Gas Industry,  
by Divisions and States: 1958 and 1954

Product, division, and State	Unit of measure	1958		1954	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
UNITED STATES					
Crude petroleum, total.....	1,000 barrels...	2,319,162	xxx	2,195,846	xxx
Shipped.....	...do.....	2,317,565	6,934,158	2,194,210	6,074,969
Used in lease operations: <sup>1</sup>					
For power or heat.....	...do.....	651	xxx	664	xxx
For other purposes, including losses.....	...do.....	946	xxx	972	xxx
Field condensate and drips shipped.....	...do.....	48,647	148,036	25,606	77,161
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	12,152,585	xxx	10,121,793	xxx
Gas from oil wells.....	...do.....	3,749,110	xxx	3,433,120	xxx
Gas from gas wells.....	...do.....	8,403,475	xxx	6,688,673	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	9,453,339	1,190,926	7,520,055	869,737
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	...do.....	680,897	103,345	493,773	73,757
Used in lease operations: <sup>1</sup>					
For power or heat.....	...do.....	332,190	xxx	345,450	xxx
For gas lift (net).....	...do.....	230,541	xxx	220,314	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	...do.....	1,184,524	xxx	1,210,180	xxx
Net change in underground storage.....	...do.....	12,368	xxx	9,004	xxx
Vented to air, burned in flares, and other losses.....	...do.....	258,726	xxx	323,017	xxx
MIDDLE ATLANTIC					
Crude petroleum, total.....	1,000 barrels...	8,163	xxx	11,353	xxx
Shipped.....	...do.....	8,155	33,309	11,351	38,984
Used in lease operations: <sup>1</sup>					
For power or heat.....	...do.....	...	xxx	1	xxx
For other purposes, including losses.....	...do.....	8	xxx	1	xxx
Field condensate and drips shipped.....	...do.....	8	25	6	20
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	92,858	xxx	140,139	xxx
Gas from oil wells.....	...do.....	2,483	xxx	3,270	xxx
Gas from gas wells.....	...do.....	90,375	xxx	136,869	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	51,624	13,774	100,973	27,477
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	...do.....	32,803	10,397	30,668	10,987
Used in lease operations: <sup>1</sup>					
For power or heat.....	...do.....	1,947	xxx	3,969	xxx
For gas lift (net).....	...do.....				
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	...do.....	277	xxx	287	xxx
Net change in underground storage and vented to air, burned in flares, and other losses.....	...do.....	6,207	xxx	4,242	xxx
New York					
Crude petroleum shipped.....	1,000 barrels...	1,652	6,692	2,598	8,934
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	2,959	xxx	3,890	xxx
Gas from oil wells.....	...do.....	124	xxx	718	xxx
Gas from gas wells.....	...do.....	2,835	xxx	3,172	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	1,240	410	880	264
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	...do.....	1,470	581	1,881	1,073
Used in lease operations: <sup>1</sup>					
For power or heat.....	...do.....	119	xxx	794	xxx
For gas lift (net).....	...do.....				
Returned to underground formations for repressuring, pressure maintenance, and cycling; net change in underground storage; and vented to air, burned in flares, and other losses.....	...do.....	130	xxx	335	xxx
Pennsylvania					
Crude petroleum, total.....	1,000 barrels...	6,511	xxx	8,755	xxx
Shipped.....	...do.....	6,503	26,617	8,753	30,050
Used in lease operations.....	...do.....	8	xxx	2	xxx

See footnotes at end of table.



Table 6A.—Primary Products of the Crude Petroleum and Natural Gas Industry,  
by Divisions and States 1958 and 1954—Continued

Product, division, and State	Unit of measure	1958		1954	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
MIDDLE ATLANTIC—Continued					
Pennsylvania—Continued					
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	89,899	xxx	136,249	xxx
Gas from oil wells.....	..do.....	2,359	xxx	2,552	xxx
Gas from gas wells.....	..do.....	87,540	xxx	133,697	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	50,384	13,364	100,093	27,213
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	..do.....	31,333	9,816	28,787	9,914
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	1,828	xxx	3,175	xxx
For gas lift (net).....	..do.....				
Returned to underground formations for repressuring, pressure maintenance, and cycling; net change in underground storage; and vented to air, burned in flares, and other losses.....	..do.....	6,354	xxx	4,194	xxx
EAST NORTH CENTRAL					
Crude petroleum, total.....	1,000 barrels...	99,957	xxx	86,630	xxx
Shipped.....	..do.....	99,865	297,424	86,566	253,588
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	35	xxx	36	xxx
For other purposes, including losses.....	..do.....	57	xxx	28	xxx
Field condensate and drips shipped.....	..do.....	...	...	9	19
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	56,792	xxx	50,030	xxx
Gas from oil wells.....	..do.....	26,023	xxx	21,221	xxx
Gas from gas wells.....	..do.....	30,769	xxx	28,809	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	29,883	5,774	23,958	5,486
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	..do.....	15,382	4,442	12,365	5,450
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	7,819	xxx	6,142	xxx
For gas lift (net).....	..do.....	785	xxx	4623	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	..do.....	1,433	xxx	42,319	xxx
Net change in underground storage and vented to air, burned in flares, and other losses.....	..do.....	1,490	xxx	4,623	xxx
Ohio					
Crude petroleum, total.....	1,000 barrels...	5,328	xxx	2,985	xxx
Shipped.....	..do.....	5,325	15,709	2,983	8,201
Used in lease operations.....	..do.....	3	xxx	2	xxx
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	29,846	xxx	26,007	xxx
Gas from oil wells.....	..do.....	8,285	xxx	2,658	xxx
Gas from gas wells.....	..do.....	21,561	xxx	23,349	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	17,721	3,846	15,779	4,080
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	..do.....	11,649	3,631	9,040	4,731
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	189	xxx	424	xxx
For gas lift (net).....	..do.....	...	xxx	411	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	..do.....	183	xxx	452	xxx
Net change in underground storage and vented to air, burned in flares, and other losses.....	..do.....	104	xxx	701	xxx
Indiana					
Crude petroleum, total.....	1,000 barrels...	10,402	xxx	8,910	xxx
Shipped.....	..do.....	10,398	30,980	8,905	26,015
Used in lease operations.....	..do.....	4	xxx	5	xxx
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	1,156	xxx	2,285	xxx
Gas from oil wells.....	..do.....	957	xxx	999	xxx
Gas from gas wells.....	..do.....	199	xxx	1,286	xxx

See footnotes at end of table.

Table 6A.—Primary Products of the Crude Petroleum and Natural Gas Industry,  
by Divisions, and States: 1958 and 1954—Continued

Product, division, and State	Unit of measure	1958		1954	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
EAST NORTH CENTRAL—Continued					
Indiana—Continued					
Natural gas gross production—Continued					
Disposition:					
Delivered to distributors, transmission companies and consumers, and net deliveries to natural gas liquids plants <sup>3</sup> .....	Million cu. ft. <sup>2</sup>	467	62	1,673	366
Used in lease operations:					
For power or heat.....	..do.....	632	xxx	364	xxx
For gas lift (net).....	..do.....	...	xxx	42	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	..do.....	...	xxx	473	xxx
Vented to air, burned in flares, and other losses.....	..do.....	57	xxx	173	xxx
Illinois					
Crude petroleum, total.....	1,000 barrels...	76,558	xxx	63,308	xxx
Shipped.....	..do.....	76,473	228,464	63,253	186,496
Used in lease operations.....	..do.....	85	xxx	55	xxx
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	11,981	xxx	10,865	xxx
Gas from oil wells.....	..do.....	9,964	xxx	10,773	xxx
Gas from gas wells.....	..do.....	2,017	xxx	92	xxx
Disposition:					
Delivered to distributors, transmission companies, and consumers and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	4,618	613	3,582	467
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	6,029	xxx	3,830	xxx
For gas lift (net).....	..do.....	613	xxx	4546	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling; net change in underground storage; and vented to air, burned in flares, and other losses.....	..do.....	721	xxx	42,907	xxx
Michigan					
Crude petroleum, total.....	1,000 barrels...	7,669	xxx	11,427	xxx
Shipped.....	..do.....	7,669	22,271	11,425	32,876
Used in lease operations (For purposes other than power or heat only).....	..do.....	...	xxx	2	xxx
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	13,809	xxx	10,873	xxx
Gas from oil wells.....	..do.....	6,817	xxx	6,791	xxx
Gas from gas wells.....	..do.....	6,992	xxx	4,082	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	7,515	1,301	3,128	613
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	..do.....	3,295	763	3,121	679
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	969	xxx	1,524	xxx
For gas lift (net).....	..do.....	172	xxx	64	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling and vented to air, burned in flares, and other losses.....	..do.....	1,858	xxx	3,036	xxx
WEST NORTH CENTRAL					
Crude petroleum, total.....	1,000 barrels...	141,682	xxx	124,297	xxx
Shipped.....	..do.....	141,532	415,223	124,153	339,049
Used in lease operations:					
For power or heat.....	..do.....	91	xxx	71	xxx
For other purposes, including losses.....	..do.....	59	xxx	73	xxx
Field condensate and drips shipped.....	..do.....	230	571	21	64
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	573,744	xxx	404,787	xxx
Gas from oil wells.....	..do.....	49,891	xxx	19,629	xxx
Gas from gas wells.....	..do.....	523,853	xxx	385,158	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	528,306	59,985	389,931	46,644
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	..do.....	31,175	6,243	6,262	713
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	8,931	xxx	5,593	xxx
For gas lift (net).....	..do.....				
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	..do.....	380	xxx	1,544	xxx
Net change in underground storage and vented to air, burned in flares, and other losses.....	..do.....	4,952	xxx	1,457	xxx

See footnotes at end of table.



Table 6A.—Primary Products of the Crude Petroleum and Natural Gas Industry,  
by Divisions, and States: 1958 and 1954—Continued

Product, division, and State	Unit of measure	1958		1954	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
WEST NORTH CENTRAL—Continued					
North Dakota					
Crude petroleum, total.....	1,000 barrels...	13,932	xxx	5,866	xxx
Shipped.....	...do.....	13,853	40,405	5,780	12,509
Used in lease operations.....	...do.....	79	xxx	86	xxx
Natural gas gross production.....	Million cu. ft. <sup>2</sup>	15,679	xxx	2,683	xxx
Disposition:					
Delivered to distributors, transmission companies, and consumers and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	14,137	1,050	(D)	(D)
Used in lease operations:					
For power or heat.....	...do.....	513	xxx	623	xxx
For gas lift (net).....	...do.....	...	xxx	(D)	xxx
Vented to air, burned in flares, and other losses.....	...do.....	1,029	xxx	(D)	xxx
Nebraska					
Crude petroleum, total.....	1,000 barrels...	17,980	xxx	7,593	xxx
Shipped.....	...do.....	17,962	52,255	7,587	20,848
Used in lease operations.....	...do.....	18	xxx	6	xxx
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	20,484	xxx	7,052	xxx
Disposition:					
Delivered to distributors, transmission companies, and consumers and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	16,629	4,955	(D)	(D)
Used in lease operations for power or heat.....	...do.....	1,894	xxx	433	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling; net change in underground storage; and vented to air, burned in flares, and other losses.....	...do.....	1,961	xxx	(D)	(D)
Kansas					
Crude petroleum, total.....	1,000 barrels...	109,649	xxx	110,719	xxx
Shipped.....	...do.....	109,596	322,231	110,668	305,412
Used in lease operations.....	...do.....	53	xxx	51	xxx
Field condensate and drips shipped.....	...do.....	204	506	21	64
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	537,555	xxx	395,014	xxx
Gas from oil wells.....	...do.....	27,805	xxx	14,336	xxx
Gas from gas wells.....	...do.....	509,750	xxx	380,678	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	497,857	54,068	382,759	45,729
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	...do.....	30,839	6,153	8,546	666
Used in lease operations: <sup>1</sup>					
For power or heat.....	...do.....	6,517	xxx	4,524	xxx
For gas lift (net).....	...do.....				
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	...do.....	324	xxx	1,537	xxx
Net change in underground storage and vented to air, burned in flares, and other losses.....	...do.....	2,018	xxx	348	xxx
Missouri and South Dakota <sup>5</sup>					
Crude petroleum, total.....	1,000 barrels...	121	xxx	119	xxx
Shipped.....	...do.....	121	332	118	280
Natural gas gross production.....	Million cu. ft. <sup>2</sup>	26	xxx	38	xxx
Used in lease operations for power or heat.....	...do.....	7	xxx	13	xxx
SOUTH ATLANTIC					
Crude petroleum, total.....	1,000 barrels...	2,516	xxx	3,225	xxx
Shipped.....	...do.....	2,515	8,082	3,222	8,953
Used in lease operations:					
For power or heat.....	...do.....	...	xxx	2	xxx
For other purposes, including losses.....	...do.....	1	xxx	1	xxx
Field condensate and drips shipped.....	...do.....	4	12	9	31
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	184,412	xxx	173,498	xxx
Gas from oil wells.....	...do.....	6,967	xxx	5,856	xxx
Gas from gas wells.....	...do.....	177,445	xxx	167,642	xxx

See footnotes at end of table.

Table 6A.—Primary Products of the Crude Petroleum and Natural Gas Industry,  
by Divisions, and States: 1958 and 1954—Continued

Product, division, and State	Unit of measure	1958		1954	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
SOUTH ATLANTIC—Continued					
Natural gas gross production--Continued					
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	Million cu. ft. <sup>2</sup>	141,539	31,767	130,728	33,564
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	...do.....	34,910	8,849	36,430	13,002
Used in lease operations: <sup>1</sup>					
For power or heat.....	...do.....	5,295	xxx	2,468	xxx
For gas lift (net).....	...do.....				
Returned to underground formations for repressuring, pressure maintenance, and cycling; net change in underground storage; and vented to air, burned in flares, and other losses.....	...do.....	2,668	xxx	3,872	xxx
West Virginia					
Natural gas gross production.....	Million cu. ft. <sup>2</sup>	177,400	xxx	170,667	xxx
Delivered to distributors, transmission companies, and consumers and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	169,481	38,792	164,376	(D)
Maryland, Virginia, and Florida <sup>6</sup>					
Natural gas gross production.....	...do.....	7,012	xxx	2,831	xxx
Delivered to distributors, transmission companies, and consumers and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	6,968	1,824	2,782	(D)
EAST SOUTH CENTRAL					
Crude petroleum, total.....	1,000 barrels...	57,582	xxx	46,259	xxx
Shipped.....	...do.....	57,570	164,039	46,246	119,308
Used in lease operations:					
For power or heat.....	...do.....	5	xxx	1	xxx
For other purposes, including losses.....	...do.....	7	xxx	12	xxx
Field condensate and drips shipped.....	...do.....	1,968	5,620	783	2,331
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	293,325	xxx	274,362	xxx
Gas from oil wells.....	...do.....	68,208	xxx	56,432	xxx
Gas from gas wells.....	...do.....	225,117	xxx	217,930	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	209,385	37,156	199,987	30,403
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	...do.....	6,912	1,369	4,822	858
Used in lease operations: <sup>1</sup>					
For power or heat.....	...do.....	8,972	xxx	8,699	xxx
For gas lift (net).....	...do.....				
Returned to underground formations for repressuring, pressure maintenance, and cycling; and vented to air, burned in flares, and other losses.....	...do.....	68,056	xxx	60,854	xxx
Kentucky					
Crude petroleum, total.....	1,000 barrels...	15,195	xxx	12,294	xxx
Shipped.....	...do.....	15,195	45,150	12,290	35,986
Used in lease operations.....	...do.....	...	xxx	4	xxx
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	70,134	xxx	73,512	xxx
Gas from oil wells.....	...do.....	661	xxx	2,298	xxx
Gas from gas wells.....	...do.....	69,473	xxx	71,214	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	64,028	15,409	67,553	18,296
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	...do.....	3,410	668	1,361	507
Used in lease operations: <sup>1</sup>					
For power or heat.....	...do.....	1,491	xxx	2,332	xxx
For gas lift (net).....	...do.....				
Returned to underground formations for repressuring, pressure maintenance, and cycling; and vented to air, burned in flares, and other losses.....	...do.....	1,205	xxx	2,266	xxx
Tennessee					
Crude petroleum shipped.....	1,000 barrels...	6	18	13	46
Natural gas gross production.....	Million cu. ft. <sup>2</sup>	163	xxx	94	xxx

See footnotes at end of table.



Table 6A.—Primary Products of the Crude Petroleum and Natural Gas Industry,  
by Divisions, and States: 1958 and 1954—Continued

Product, division, and State	Unit of measure	1958		1954	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
EAST SOUTH CENTRAL—Continued					
Alabama					
Crude petroleum, total.....	1,000 barrels...	5,373	xxx	1,589	xxx
Shipped.....	..do.....	5,373	15,612	1,584	3,136
Used in lease operations (for purposes other than power or heat).....	..do.....	...	xxx	5	xxx
Natural gas gross production.....	Million cu. ft. <sup>2</sup>	333	xxx	96	xxx
Used in lease operations for power or heat.....	..do.....	202	xxx	53	xxx
Mississippi					
Crude petroleum, total.....	1,000 barrels...	37,008	xxx	32,363	xxx
Shipped.....	..do.....	36,996	103,259	32,359	80,140
Used in lease operations.....	..do.....	12	xxx	4	xxx
Field condensate and drips shipped.....	..do.....	1,960	5,595	779	2,317
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	222,695	xxx	200,660	xxx
Gas from oil wells.....	..do.....	67,224	xxx	54,038	xxx
Gas from gas wells.....	..do.....	155,471	xxx	146,622	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	145,319	21,744	132,402	12,103
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	..do.....	3,351	596	3,399	344
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	7,279	xxx	6,314	xxx
For gas lift (net).....	..do.....				
Returned to underground formations for repressuring, pressure maintenance, and cycling; and vented to air, burned in flares, and other losses.....	..do.....	66,746	xxx	58,545	xxx
WEST SOUTH CENTRAL					
Crude petroleum, total.....	1,000 barrels...	1,395,710	xxx	1,341,645	xxx
Shipped.....	..do.....	1,394,989	4,270,367	1,341,067	3,810,027
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	199	xxx	234	xxx
For other purposes, including losses.....	..do.....	522	xxx	344	xxx
Field condensate and drips shipped.....	..do.....	44,402	136,294	23,912	72,166
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	9,116,454	xxx	7,638,090	xxx
Gas from oil wells.....	..do.....	2,594,222	xxx	2,447,401	xxx
Gas from gas wells.....	..do.....	6,522,232	xxx	5,190,689	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	7,203,588	843,378	5,799,397	541,554
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	..do.....	473,370	55,331	259,842	25,927
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	225,485	xxx	229,798	xxx
For gas lift (net).....	..do.....	159,811	xxx	4178,261	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	..do.....	855,223	xxx	4901,378	xxx
Net change in underground storage.....	..do.....	3,675	xxx	3,756	xxx
Vented to air, burned in flares, and other losses.....	..do.....	195,302	xxx	265,658	xxx
Arkansas					
Crude petroleum, total.....	1,000 barrels...	27,140	xxx	26,872	xxx
Shipped.....	..do.....	27,131	77,311	26,860	71,695
Used in lease operations.....	..do.....	9	xxx	12	xxx
Field condensate and drips shipped.....	..do.....	22	71	26	59
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	47,001	xxx	49,541	xxx
Gas from oil wells.....	..do.....	21,920	xxx	35,991	xxx
Gas from gas wells.....	..do.....	25,081	xxx	13,550	xxx
Disposition:					
Delivered to distributors, transmission companies, and consumers and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	33,131	4,347	28,214	2,217
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	2,092	xxx	1,282	xxx
For gas lift (net).....	..do.....	15	xxx	4293	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	..do.....	10,550	xxx	419,007	xxx
Net change in underground storage and vented to air, burned in flares, and other losses.....	..do.....	1,213	xxx	745	xxx

See footnotes at end of table.

Table 6A.—Primary Products of the Crude Petroleum and Natural Gas Industry,  
by Divisions, and States: 1958 and 1954—Continued

Product, division, and State	Unit of measure	1958		1954	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
WEST SOUTH CENTRAL—Continued					
Louisiana					
Crude petroleum, total.....	1,000 barrels...	290,295	xxx	231,276	xxx
Shipped.....	..do.....	290,281	938,678	231,238	676,822
Used in lease operations.....	..do.....	14	xxx	38	xxx
Field condensate and drips shipped.....	..do.....	22,452	69,429	10,733	32,524
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	2,626,586	xxx	1,661,805	xxx
Gas from oil wells.....	..do.....	466,525	xxx	386,266	xxx
Gas from gas wells.....	..do.....	2,160,061	xxx	1,275,539	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	Million cu. ft. <sup>2</sup>	2,117,749	303,304	1,233,974	131,079
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	..do.....	111,882	13,881	78,858	7,285
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	59,943	xxx	68,532	xxx
For gas lift (net).....	..do.....	40,616	xxx	426,977	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	..do.....	228,798	xxx	4204,382	xxx
Net change in underground storage and vented to air, burned in flares, and other losses.....	..do.....	67,598	xxx	49,082	xxx
Oklahoma					
Crude petroleum, total.....	1,000 barrels...	186,746	xxx	171,305	xxx
Shipped.....	..do.....	186,522	549,332	171,068	471,423
Used in lease operations:					
For power or heat.....	..do.....	69	xxx	153	xxx
For other purposes, including losses.....	..do.....	155	xxx	84	xxx
Field condensate and drips shipped.....	..do.....	1,089	3,201	208	599
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	800,728	xxx	787,468	xxx
Gas from oil wells.....	..do.....	443,297	xxx	423,295	xxx
Gas from gas wells.....	..do.....	357,431	xxx	364,173	xxx
Disposition:					
Delivered to distributors, transmission companies, and consumers and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	644,946	58,961	583,469	52,713
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	29,846	xxx	36,956	xxx
For gas lift (net).....	..do.....	1,188	xxx	48,142	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	..do.....	100,016	xxx	488,816	xxx
Net change in underground storage and vented to air, burned in flares, and other losses.....	..do.....	24,732	xxx	70,085	xxx
Texas					
Crude petroleum, total.....	1,000 barrels...	891,529	xxx	912,192	xxx
Shipped.....	..do.....	891,055	2,705,046	911,901	2,590,087
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	125	xxx	54	xxx
For other purposes, including losses.....	..do.....	349	xxx	237	xxx
Field condensate and drips shipped.....	..do.....	20,839	63,593	12,945	38,984
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	5,642,139	xxx	5,139,276	xxx
Gas from oil wells.....	..do.....	1,662,480	xxx	1,601,849	xxx
Gas from gas wells.....	..do.....	3,979,659	xxx	3,537,427	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	4,446,621	481,105	3,974,640	358,690
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	..do.....	322,629	37,111	160,084	15,497
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	133,604	xxx	123,028	xxx
For gas lift (net).....	..do.....	117,992	xxx	4142,849	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	..do.....	515,859	xxx	4589,173	xxx
Net change in underground storage.....	..do.....	3,675	xxx	3,740	xxx
Vented to air, burned in flares, and other losses.....	..do.....	101,759	xxx	145,762	xxx

See footnotes at end of table.



Table 6A.—Primary Products of the Crude Petroleum and Natural Gas Industry,  
by Divisions, and States: 1958 and 1954—Continued

Product, division, and State	Unit of measure	1958		1954	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
MOUNTAIN					
Crude petroleum, total.....	1,000 barrels...	303,020	xxx	225,511	xxx
Shipped.....	..do.....	302,744	849,659	225,283	577,979
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	127	xxx	50	xxx
For other purposes, including losses.....	..do.....	149	xxx	178	xxx
Field condensate and drips shipped.....	..do.....	1,800	4,799	721	2,050
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	1,073,167	xxx	678,994	xxx
Gas from oil wells.....	..do.....	391,261	xxx	304,662	xxx
Gas from gas wells.....	..do.....	681,906	xxx	374,332	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	905,749	91,790	482,486	40,483
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	..do.....	44,021	5,076	99,491	8,618
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	30,750	xxx	30,172	xxx
For gas lift (net).....	..do.....	2,634	xxx	410,781	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	..do.....	56,240	xxx	425,224	xxx
Net change in underground storage.....	..do.....	569	xxx	1,325	xxx
Vented to air, burned in flares, and other losses.....	..do.....	33,204	xxx	29,515	xxx
Montana					
Crude petroleum, total.....	1,000 barrels...	28,439	xxx	13,810	xxx
Shipped.....	..do.....	28,374	75,523	13,771	30,446
Used in lease operations.....	..do.....	65	xxx	39	xxx
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	32,922	xxx	30,261	xxx
Gas from oil wells.....	..do.....	6,323	xxx	2,549	xxx
Gas from gas wells.....	..do.....	26,599	xxx	27,712	xxx
Disposition:					
Delivered to distributors, transmission companies, and consumers and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	30,168	2,098	26,683	1,902
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	1,569	xxx	1,205	xxx
For gas lift (net).....	..do.....	100	xxx	439	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling; net change in underground storage; and vented to air, burned in flares, and other losses.....	..do.....	1,085	xxx	42,334	xxx
Wyoming					
Crude petroleum, total.....	1,000 barrels...	108,181	xxx	91,208	xxx
Shipped.....	..do.....	108,100	281,440	91,131	216,861
Used in lease operations.....	..do.....	81	xxx	77	xxx
Field condensate and drips shipped.....	..do.....	181	529	103	313
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	160,092	xxx	110,290	xxx
Gas from oil wells.....	..do.....	62,194	xxx	62,655	xxx
Gas from gas wells.....	..do.....	97,898	xxx	47,635	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	122,080	13,907	65,152	7,239
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	..do.....	5,280	493	3,592	323
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	9,041	xxx	16,249	xxx
For gas lift (net).....	..do.....	1,790	xxx	42,303	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	..do.....	13,121	xxx	48,813	xxx
Net change in underground storage and vented to air, burned in flares, and other losses.....	..do.....	8,780	xxx	14,181	xxx
Colorado					
Crude petroleum, total.....	1,000 barrels...	48,143	xxx	44,719	xxx
Shipped.....	..do.....	48,134	143,139	44,667	123,851
Used in lease operations.....	..do.....	9	xxx	52	xxx
Field condensate and drips shipped.....	..do.....	51	131	(D)	(D)

See footnotes at end of table.

Table 6A—Primary Products of the Crude Petroleum and Natural Gas Industry,  
by Divisions, and States: 1958 and 1954—Continued

Product, division, and State	Unit of measure	1958		1954	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
MOUNTAIN—Continued					
Colorado—Continued					
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	132,552	xxx	66,593	xxx
Gas from oil wells.....	...do.....	77,560	xxx	37,535	xxx
Gas from gas wells.....	...do.....	54,992	xxx	29,058	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	72,424	10,641	32,473	3,284
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	...do.....	6,079	1,175	8,223	894
Used in lease operations: <sup>1</sup>					
For power or heat.....	...do.....	7,970	xxx	5,367	xxx
For gas lift (net).....	...do.....	8	xxx	434	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling and vented to air, burned in flares, and other losses.....	...do.....	46,071	xxx	420,496	xxx
New Mexico					
Crude petroleum, total.....	1,000 barrels...	93,820	xxx	73,832	xxx
Shipped.....	...do.....	93,738	277,642	73,774	202,257
Used in lease operations.....	...do.....	82	xxx	58	xxx
Field condensate and drips shipped.....	...do.....	1,559	4,106	572	1,602
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	718,785	xxx	455,154	xxx
Gas from oil wells.....	...do.....	233,878	xxx	201,515	xxx
Gas from oil wells.....	...do.....	484,907	xxx	253,639	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	674,254	63,273	352,060	26,642
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	...do.....	21,565	2,681	77,956	6,564
Used in lease operations: <sup>1</sup>					
For power or heat.....	...do.....	10,979	xxx	6,899	xxx
For gas lift (net).....	...do.....	736	xxx	48,405	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling; net change in underground storage; vented to air, burned in flares, and other losses.....	...do.....	11,251	xxx	49,834	xxx
Utah, Arizona, and Nevada					
Crude petroleum, total.....	1,000 barrels...	24,437	xxx	1,942	xxx
Shipped.....	...do.....	24,398	71,915	1,940	4,564
Used in lease operations.....	...do.....	39	xxx	2	xxx
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	28,816	xxx	16,696	xxx
Gas from oil wells.....	...do.....	11,306	xxx	408	xxx
Gas from gas wells.....	...do.....	17,510	xxx	16,288	xxx
Disposition:					
Delivered to distributors, transmission companies, and consumers and net deliveries to natural gas liquids plants <sup>3</sup> .....	...do.....	17,920	2,598	15,838	2,253
Used in lease operations:					
For power or heat.....	...do.....	1,191	xxx	452	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling; and vented to air, burned in flares, and other losses.....	...do.....	9,705	xxx	406	xxx
PACIFIC (Washington and California)					
Crude petroleum, total.....	1,000 barrels...	310,532	xxx	356,926	xxx
Shipped.....	...do.....	310,195	896,055	356,322	927,081
Used in lease operations: <sup>1</sup>					
For power or heat.....	...do.....	194	xxx	269	xxx
For other purposes, including losses.....	...do.....	143	xxx	335	xxx
Field condensate and drips shipped.....	...do.....	235	715	145	480

See footnotes at end of table.



Table 6A.—Primary Products of the Crude Petroleum and Natural Gas Industry,  
by Divisions, and States: 1958 and 1954—Continued

Product, division, and State	Unit of measure	1958		1954	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
PACIFIC (Washington and California)—Continued					
Natural gas gross production, total.....	Million cu. ft. <sup>2</sup>	761,833	xxx	761,893	xxx
Gas from oil wells.....	..do.....	610,055	xxx	574,649	xxx
Gas from gas wells.....	..do.....	151,778	xxx	187,244	xxx
Disposition:					
Delivered:					
To distributors and transmission companies and net deliveries to natural gas liquids plants <sup>3</sup> .....	..do.....	383,265	107,302	392,595	144,126
To consumers (domestic, commercial, and industrial, including deliveries to own refineries).....	..do.....	42,324	10,977	43,893	8,202
Used in lease operations: <sup>1</sup>					
For power or heat.....	..do.....	42,991	xxx	58,609	xxx
For gas lift (net).....	..do.....	66,087	xxx	427,548	xxx
Returned to underground formations for repressuring, pressure maintenance, and cycling.....	..do.....	208,710	xxx	4223,777	xxx
Net change in underground storage.....	..do.....	766	xxx	...	xxx
Vented to air, burned in flares, and other losses.....	..do.....	17,690	xxx	15,471	xxx

D Withheld to avoid disclosing figures for individual companies

<sup>1</sup>For 1958, short forms were used for certain small reports. These provided only for the totals used in lease operations. Such combined figures reported on short forms were 40 thousand barrels of crude petroleum and 6,536 million cubic feet of gas for the United States as a whole. These figures were allocated between the two classes of uses on the basis of the allocation reported for such uses by all establishments in the State which reported such detail.

<sup>2</sup>Represents volumes adjusted to a pressure base of 14.73 pounds absolute at 60°F.

<sup>3</sup>Respondents were requested to include, besides the value of residue gas, the producers' realization from all products contained in the gas delivered to natural gas liquids plants.

<sup>4</sup>For 1954, separate figures for all gas used for gas lift and for repressuring were adjusted to exclude purchased gas by allocating purchases in proportion to total use for these purposes in each State. For the United States as a whole, 122,958 million cubic feet of gas was purchased for these purposes by the Crude Petroleum and Natural Gas Industry. Such purchases for the Oil and Gas field Services Industries were for gas lift only and needed no allocation.

<sup>5</sup>For 1954, includes figures for Iowa.

<sup>6</sup>For 1954, includes figures for Georgia.

Table 6B.—Shipments of Primary Products of the Crude Petroleum and Natural Gas Industry  
Distributed by Unit Values: 1958

Product shipped and average unit value at well <sup>1</sup>	Unit of measure	Quantity shipped		Value of shipments	
		Quantity	Percent of total quantity	Value (millions of dollars)	Percent of total value
Crude petroleum, total.....	Million barrels.	2,317.6	100.0	6,934.2	100.0
Less than \$1.80.....	..do.....	3.4	0.1	5.6	0.1
\$1.80-\$2.04.....	..do.....	13.2	0.6	26.1	0.4
\$2.05-\$2.29.....	..do.....	32.2	1.4	71.6	1.0
\$2.30-\$2.59.....	..do.....	125.7	5.4	312.8	4.5
\$2.60-\$2.94.....	..do.....	502.7	21.7	1,429.4	20.6
\$2.95-\$3.34.....	..do.....	1,598.9	69.0	4,935.6	71.2
\$3.35-\$3.79.....	..do.....	29.8	1.3	102.5	1.5
\$3.80 and over.....	..do.....	11.7	0.5	50.6	0.7
Field condensate and drips, total.....	..do.....	48.6	100.0	148.0	100.0
Less than \$1.80.....	..do.....	0.4	0.8	0.6	0.4
\$1.80-\$2.04.....	..do.....	0.1	0.2	0.3	0.2
\$2.05-\$2.29.....	..do.....	0.6	1.2	1.4	0.9
\$2.30-\$2.59.....	..do.....	4.1	8.5	10.4	7.0
\$2.60-\$2.94.....	..do.....	7.5	15.4	20.8	14.1
\$2.95-\$3.34.....	..do.....	30.5	62.8	96.0	64.9
\$3.35-\$3.79.....	..do.....	5.3	10.9	18.3	12.4
\$3.80 and over.....	..do.....	0.1	0.2	0.2	0.1
Natural gas: Delivered to distributors and transmission companies and net deliveries to natural gas liquids plants, total <sup>2</sup> .....	Billion cu. ft. <sup>3</sup>	9,453.3	100.0	1,190.9	100.0
Less than 2.9¢.....	..do.....	45.0	0.5	0.1	( <sup>4</sup> )
3.0¢-3.8¢.....	..do.....	130.6	1.4	4.6	0.4
3.9¢-4.3¢.....	..do.....	73.2	0.8	2.9	0.2
4.4¢-4.8¢.....	..do.....	43.5	0.5	2.0	0.2
4.9¢-5.4¢.....	..do.....	75.2	0.8	3.9	0.3
5.5¢-6.1¢.....	..do.....	65.8	0.7	3.8	0.3
6.2¢-6.9¢.....	..do.....	162.8	1.7	10.6	0.9
7.0¢-7.8¢.....	..do.....	385.9	4.1	28.9	2.4
7.9¢-8.8¢.....	..do.....	1,001.5	10.6	83.1	7.0
8.9¢-10.0¢.....	..do.....	1,112.7	11.8	105.5	8.9
10.1¢-11.1¢.....	..do.....	1,193.6	12.6	125.7	10.6
11.2¢-12.5¢.....	..do.....	1,951.4	20.6	229.1	19.2
12.6¢-14.1¢.....	..do.....	748.0	7.9	99.6	8.4
14.2¢-15.9¢.....	..do.....	637.8	6.7	94.6	7.9
16.0¢-17.9¢.....	..do.....	775.3	8.2	131.0	11.0
18.0¢-20.4¢.....	..do.....	478.9	5.1	93.1	7.8
20.5¢-22.9¢.....	..do.....	83.2	0.9	18.4	1.5
23.0¢-25.9¢.....	..do.....	152.2	1.6	38.2	3.2
26.0¢-29.4¢.....	..do.....	118.8	1.2	31.9	2.7
29.5¢-33.4¢.....	..do.....	121.4	1.3	37.5	3.2
33.5¢-42.9¢.....	..do.....	72.0	0.8	28.5	2.4
43.0¢ and over.....	..do.....	24.5	0.2	17.9	1.5
Delivered to consumers (domestic, commercial, and industrial, including deliveries to own refineries), total.....	..do.....	680.9	100.0	103.3	100.0
Less than 6.1¢.....	..do.....	12.6	1.8	0.5	0.5
6.2¢-6.9¢.....	..do.....	12.1	1.8	0.8	0.8
7.0¢-7.8¢.....	..do.....	14.1	2.1	1.0	1.0
7.9¢-8.8¢.....	..do.....	150.5	22.1	12.6	12.2
8.9¢-10.0¢.....	..do.....	31.3	4.6	3.0	2.9
10.1¢-11.1¢.....	..do.....	21.2	3.1	2.2	2.1
11.2¢-12.5¢.....	..do.....	32.1	4.7	3.8	3.7
12.6¢-14.1¢.....	..do.....	165.3	24.3	22.4	21.7
14.2¢-15.9¢.....	..do.....	66.5	9.8	10.2	9.9
16.0¢-17.9¢.....	..do.....	39.3	5.8	6.7	6.5
18.0¢-20.4¢.....	..do.....	9.3	1.4	1.8	1.7
20.5¢-22.9¢.....	..do.....	27.7	4.1	6.1	5.9
23.0¢-25.9¢.....	..do.....	3.8	0.6	0.9	0.9
26.0¢-29.4¢.....	..do.....	34.2	5.0	9.5	9.2
29.5¢-33.4¢.....	..do.....	24.8	3.6	7.9	7.6
33.5¢-42.9¢.....	..do.....	25.3	3.7	9.1	8.8
43.0¢ and over.....	..do.....	5.8	0.8	2.4	2.3
	..do.....	5.0	0.7	2.4	2.3

<sup>1</sup>The "average values" are based on the entire shipments of the specified product by each establishment. Thus they are representative of varied average prices among establishments but not variations within an establishment.

<sup>2</sup>Respondents were requested to include, besides the value of residue gas, the producers' realization from all products contained in the gas delivered to natural gas liquids plants.

<sup>3</sup>Represents volumes adjusted to a pressure base of 14.73 pounds absolute at 60°F.

<sup>4</sup>Less than 0.05 percent.



Table 6C.—Quantity of Shipments of Crude Petroleum and Natural Gas, by County: 1958 and 1954

Division, State, and county	Quantity of shipments			Division, State, and county	Quantity of shipments		
	Crude petroleum (1,000 barrels)		Natural gas 1958 (million cu. ft.)		Crude petroleum (1,000 barrels)		Natural gas 1958 (million cu. ft.)
	1958	1954			1958	1954	
United States, total.....	2,317,565	2,194,210	10,134,236	East North Central--Continued			
Middle Atlantic, total.....	8,155	11,351	84,427	Illinois--Continued			
New York, total.....	1,652	2,598	2,710	Jasper.....	1,927	1,341	...
Allegany.....	1,035	2,107	696	Jefferson.....	2,595	1,995	95
Cattaraugus.....	388	389	948	Lawrence.....	4,995	2,866	...
Steuben.....	75	38	183	Madison.....	267	376	...
Other counties.....	1	2	677	Marion.....	6,768	8,287	567
Undistributed.....	153	62	206	Richland.....	1,936	1,885	2
Pennsylvania, total.....	6,503	8,753	81,717	Saline.....	1,006	642	297
Allegheny.....	96	120	1,497	Wabash.....	3,360	2,627	79
Armstrong.....	...	...	10,088	Washington.....	836	801	...
Butler.....	59	92	486	Wayne.....	6,328	7,318	105
Clarion.....	9	44	2,987	White.....	6,920	7,667	373
Clearfield.....	9	(1)	18,936	Other counties.....	646	938	15
Elk.....	37	509	7,006	Undistributed.....	3,040	2,586	1,463
Forest.....	37	48	663	Michigan, total.....	7,669	11,425	10,810
Greene.....	92	52	3,576	Allegan.....	179	191	3,096
Indiana.....	...	...	8,715	Arenac.....	533	1,364	50
Jefferson.....	2	(1)	5,894	Bay.....	635	670	...
McKean.....	4,766	6,183	1,688	Clare.....	584	768	1,015
Potter.....	86	187	3,985	Crawford.....	185	273	944
Venango.....	423	472	417	Gladwin.....	424	586	...
Warren.....	268	381	185	Isabella.....	830	1,330	199
Washington.....	131	149	2,647	Midland.....	297	401	39
Westmoreland.....	4	(1)	5,617	Missaukee.....	472	534	157
Other counties.....	65	86	3,944	Montcalm.....	372	225	52
Undistributed.....	419	430	3,386	Newaygo.....	119	206	...
East North Central, total.....	99,865	86,566	45,265	Oceana.....	297	868	23
Ohio, total.....	5,325	2,983	29,370	Ogemaw.....	404	694	614
Ashland.....	41	59	923	Osceola.....	663	640	321
Athens.....	15	(1)	1,278	Tuscola.....	132	(1)	...
Coshocton.....	902	582	1,566	Other counties.....	1,172	1,631	4,245
Holmes.....	324	119	2,012	Undistributed.....	371	1,044	55
Knox.....	157	397	669	West North Central, total.....	141,532	124,153	559,481
Licking.....	500	271	778	North Dakota, total.....	13,853	5,780	14,137
Medina.....	204	237	1,282	Bottineau.....	828	(1)	...
Meigs.....	34	54	1,234	Burke.....	1,065	(1)	152
Monroe.....	114	94	515	McKenzie.....	4,109	362	2,582
Mushingum.....	352	234	1,370	Williams.....	5,460	3,762	7,930
Perry.....	378	387	1,042	Other counties.....	2,334	1,407	1,873
Stark.....	53	(NA)	2,709	Undistributed.....	57	249	1,600
Summit.....	78	(NA)	1,916	Nebraska, total.....	17,962	7,587	16,629
Washington.....	247	137	1,848	Banner.....	3,801	481	(1)
Wayne.....	1,221	(1)	3,559	Cheyenne.....	4,245	3,408	7,130
Other counties.....	249	348	4,617	Kimball.....	8,600	3,361	1,804
Undistributed.....	456	64	2,052	Morrill.....	552	...	...
Indiana, total.....	10,398	8,905	467	Other counties.....	139	216	7,695
Gibson.....	3,313	2,648	181	Undistributed.....	625	121	...
Knox.....	189	313	...	Kansas, total.....	109,596	110,668	528,696
Pike.....	1,225	775	...	Allen.....	446	605	211
Posey.....	3,087	3,345	126	Anderson.....	381	737	...
Spencer.....	185	82	...	Barber.....	1,947	1,317	43,060
Sullivan.....	254	565	...	Barton.....	13,413	15,950	4,555
Vanderburgh.....	1,297	304	...	Butler.....	7,125	7,477	74
Vigo.....	190	176	...	Chase.....	142	...	...
Other counties.....	56	354	1	Chautauqua.....	691	807	380
Undistributed.....	602	343	159	Clark.....	249	117	5,854
Illinois, total.....	76,473	63,253	4,618	Cowley.....	3,675	4,075	402
Bond.....	532	54	...	Decatur.....	397	282	...
Christian.....	884	631	...	Edwards.....	124	94	1,090
Clark.....	548	605	4	Elk.....	233	158	394
Clay.....	2,994	3,249	21	Ellis.....	8,567	9,684	1,310
Clinton.....	4,060	1,380	19	Ellsworth.....	1,919	2,754	57
Coles.....	465	486	4	Finney.....	511	127	36,367
Crawford.....	3,093	2,632	...	Franklin.....	302	358	...
Cumberland.....	694	751	...	Graham.....	6,218	3,609	...
Douglas.....	209	(NA)	...	Grant.....	57	(1)	149,799
Edwards.....	1,334	1,011	19	Greenwood.....	5,901	5,925	9,940
Effingham.....	622	393	2	Harper.....	867	135	4,632
Fayette.....	13,050	6,092	417	Harvey.....	337	498	252
Franklin.....	1,951	2,341	...	Haskell.....	276	(1)	20,643
Gallatin.....	2,686	1,476	77	Hodgeman.....	236	(1)	...
Hamilton.....	2,729	2,823	1,059	Kearny.....	(1)	(1)	50,219
				Kingman.....	2,109	603	8,027

See footnotes at end of table.

Table 6C.-Quantity of Shipments of Crude Petroleum and Natural Gas, by County  
1958 and 1954-Continued

Division, State, and county	Quantity of shipments			Division, State, and county	Quantity of shipments		
	Crude petroleum (1,000 barrels)		Natural gas 1958 (million cu. ft.)		Crude petroleum (1,000 barrels)		Natural gas 1958 (million cu. ft.)
	1958	1954			1958	1954	
West North Central--Continued				East South Central--Continued			
Kansas--Continued				Kentucky--Continued			
Kiowa.....	828	(1)	2,795	Daviess.....	1,207	1,019	...
Labette.....	122	(1)	(1)	Floyd.....	(1)	(1)	12,062
Lyon.....	130	310	...	Green.....	192	(1)	...
McPherson.....	3,544	3,436	541	Hancock.....	188	370	...
Marion.....	2,016	585	276	Henderson.....	2,792	2,915	...
Mead.....	671	468	7,832	Johnson.....	149	109	165
Miami.....	465	489	(1)	Knott.....	24	(1)	8,467
Montgomery.....	450	555	75	Lawrence.....	(1)	236	510
Morris.....	(1)	(1)	...	Lee.....	676	336	(1)
Morton.....	674	(1)	63,468	McLean.....	632	885	(1)
Neosho.....	313	644	74	Magoffin.....	1,391	629	(1)
Ness.....	410	254	(1)	Martin.....	14	(NA)	(1)
Norton.....	981	476	...	Muhlenberg.....	482	108	(1)
Pawnee.....	1,398	1,534	3,624	Ohio.....	855	1,206	(1)
Phillips.....	1,937	1,929	(1)	Pike.....	(1)	(1)	24,671
Pratt.....	2,174	2,549	365	Union.....	1,486	1,499	...
Reno.....	1,022	1,201	3,769	Webster.....	963	954	(1)
Rice.....	4,952	6,791	583	Other counties.....	647	1,089	21,563
Rooks.....	5,033	6,482	(1)	Undistributed.....	2,711	897	...
Rush.....	372	280	1,638	Tennessee.....	6	13	3189
Russell.....	7,664	11,827	154	Alabama, total.....	5,373	1,584	(3)
Saline.....	200	1,289	...	Choctaw.....	320	(1)	...
Sedgwick.....	2,473	1,013	(1)	Escambia.....	762	(1)	(3)
Seward.....	36	(NA)	23,751	Mobile.....	4,120	(1)	...
Sheridan.....	404	331	...	Other counties.....	14	1,584	(3)
Stafford.....	4,957	6,046	1,330	Undistributed.....	157	...	...
Stanton.....	(1)	(1)	5,972	Mississippi, total.....	36,996	32,359	148,670
Stevens.....	(1)	(1)	69,268	Adams.....	5,303	7,943	(1)
Sumner.....	2,080	1,357	262	Clarke.....	173	(1)	...
Trego.....	1,582	834	...	Forrest.....	158	(1)	40,279
Wabunsee.....	(1)	(NA)	...	Franklin.....	1,150	357	(1)
Wilson.....	147	107	(1)	Jasper.....	4,782	3,012	4,354
Woodson.....	601	497	16	Jefferson.....	1,757	1,509	(1)
Other counties.....	1,116	1,196	2,303	Jefferson Davis.....	(1)	(1)	23,342
Undistributed.....	4,721	2,876	3,334	Lamar.....	1,127	4,449	16,806
Missouri and South Dakota.....	121	118	19	Lincoln.....	3,557	5,415	(1)
South Atlantic, total.....	2,515	3,222	176,449	Marion.....	454	801	4,182
West Virginia, total.....	2,515	2,668	169,481	Pearl River.....	282	(NA)	10,168
Boone.....	...	...	4,901	Pike.....	351	(NA)	...
Braxton.....	(1)	(1)	1,546	Wayne.....	4,046	2,939	(1)
Cabell.....	...	...	1,585	Wilkinson.....	789	253	...
Calhoun.....	151	145	6,326	Yazoo.....	3,614	4,449	...
Clay.....	66	59	2,230	Other counties.....	8,796	1,012	48,608
Doddridge.....	72	64	1,644	Undistributed.....	657	220	931
Gilmer.....	62	91	1,957	West South Central, total.....	1,394,989	1,341,067	7,676,958
Harrison.....	102	110	10,595	Arkansas, total.....	27,131	26,860	33,131
Jackson.....	76	47	3,148	Columbia.....	6,969	6,873	4,921
Kanawha.....	220	154	13,195	Franklin.....	...	...	13,718
Lewis.....	(1)	35	9,265	Lafayette.....	4,326	4,210	(1)
Lincoln.....	(1)	(1)	16,160	Miller.....	1,852	1,251	(1)
Logan.....	(1)	...	13,332	Nevada.....	589	700	(1)
Marion.....	80	103	3,704	Quachita.....	5,659	5,338	188
Mingo.....	7	(NA)	11,433	Union.....	6,828	7,996	1,115
Monongalia.....	84	93	842	Other counties.....	151	81	13,021
Nicholas.....	(1)	(1)	2,892	Undistributed.....	757	411	168
Pocahontas.....	...	...	3,900	Louisiana, total.....	290,281	231,238	2,229,631
Putnam.....	...	...	6,442	Acadia.....	7,363	7,489	119,393
Raleigh.....	...	...	3,147	Allen.....	(1)	335	17,631
Ritchie.....	173	157	3,317	Assumption.....	1,926	640	35,536
Roane.....	199	245	3,574	Avoyelles.....	601	1,086	632
Tyler.....	128	101	812	Beauregard.....	3,663	2,901	13,810
Upshur.....	...	...	2,860	Bienville.....	164	138	35,510
Wayne.....	28	...	8,668	Bossier.....	2,424	2,480	100,890
Wetzel.....	107	151	1,260	Caddo.....	6,700	7,745	45,602
Wyoming.....	...	...	9,223	Calcasieu.....	6,936	8,386	44,316
Other counties.....	2718	1,029	7,930	Cameron.....	9,924	7,354	233,395
Undistributed.....	242	84	13,593	Catahoula.....	689	181	(1)
Maryland, Virginia, and Florida...	(2)	554	6,968	Claiborne.....	3,736	4,485	31,435
East South Central, total.....	57,570	46,246	216,297	Concordia.....	4,434	4,031	3,872
Kentucky, total.....	15,195	12,290	67,438	De Soto.....	571	250	62,559
Breathitt.....	143	(1)	(1)	East Baton Rouge.....	1,194	1,784	2,819
Butler.....	269	38	...				
Christian.....	374	(1)	...				

See footnotes at end of table.



Table 6C.—Quantity of Shipments of Crude Petroleum and Natural Gas, by County:  
1958 and 1954—Continued

Division, State, and county	Quantity of shipments			Division, State, and county	Quantity of shipments		
	Crude petroleum (1,000 barrels)		Natural gas 1958 (million cu. ft.)		Crude petroleum (1,000 barrels)		Natural gas 1958 (million cu. ft.)
	1958	1954			1958	1954	
West South Central--Continued				West South Central--Continued			
Louisiana--Continued				Oklahoma--Continued			
Evangeline.....	1,785	2,581	3,618	Washington.....	3,627	3,520	(1)
Franklin.....	365	650	(1)	Washita.....	103	351	(1)
Iberia.....	12,343	13,944	35,355	Other counties.....	1,344	1,571	18,983
Iberville.....	5,475	5,774	15,343	Undistributed.....	9,495	5,336	9,570
Jefferson.....	7,472	9,027	23,198				
Jefferson Davis.....	3,426	3,004	102,164	Texas, total.....	891,055	911,901	4,769,250
Lafayette.....	354	217	7,814				
Lafourche.....	29,935	18,223	129,615	Anderson.....	4,535	2,934	38,474
La Salle.....	4,133	5,493	(1)	Andrews.....	56,121	42,373	95,644
Lincoln.....	400	209	57,010	Aransas.....	2,505	3,195	25,258
Morehouse.....	...	...	11,596	Archer.....	8,052	6,846	2,798
Quachita.....	1,157	(1)	39,518	Atascosa.....	3,588	3,717	15,652
Plaquemines.....	66,619	39,881	85,006	Austin.....	1,434	2,402	4,937
Rapides.....	408	623	(1)	Baylor.....	2,384	977	840
Red River.....	141	100	(1)	Bee.....	1,506	2,244	48,090
Richland.....	(1)	4,275	4,090	Bexar.....	235	126	(1)
Sabine.....	132	72	(1)	Borden.....	9,607	5,633	7,598
St. Charles.....	6,068	7,287	(1)	Brazoria.....	21,050	26,446	272,084
St. James.....	1,016	1,112	(1)	Brooks.....	3,796	4,757	105,104
St. Landry.....	5,451	2,690	49,882	Brown.....	285	394	859
St. Martin.....	8,247	9,503	90,132	Caldwell.....	3,516	4,837	(1)
St. Mary.....	13,487	11,032	61,473	Calhoun.....	1,941	1,219	56,129
Tensas.....	2,387	1,680	3,509	Callahan.....	2,048	1,252	617
Terrebonne.....	24,827	18,907	214,775	Camp.....	107	236	(1)
Union.....	145	257	53,387	Carson.....	3,648	2,659	110,351
Vermilion.....	5,806	5,398	156,417	Cass.....	1,834	428	7,478
Webster.....	2,444	2,356	58,322	Chambers.....	13,479	15,142	89,299
West Baton Rouge.....	217	229	(1)	Cherokee.....	1,592	360	3,134
Other counties.....	8,132	3,313	49,164	Clay.....	5,301	4,531	1,472
Offshore.....	26,463	10,946	222,182	Cochran.....	5,681	6,224	8,610
Undistributed.....	1,123	3,170	8,661	Coke.....	8,791	13,049	24,190
Oklahoma, total.....	186,522	171,068	644,946	Coleman.....	2,552	2,435	6,285
Alfalfa.....	616	87	1,487	Colorado.....	1,484	707	51,297
Beaver.....	1,191	143	25,218	Cooke.....	7,457	6,575	2,500
Beckham.....	3,324	5,186	2,842	Crane.....	30,156	18,266	41,636
Caddo.....	4,497	3,672	9,491	Crockett.....	6,453	7,878	9,024
Carter.....	16,120	18,667	28,495	Crosby.....	383	(1)	...
Cimarron.....	120	(1)	11,694	Culberson.....	250	(1)	...
Cleveland.....	4,177	1,397	18,161	Dallam.....	...	...	5,380
Coal.....	412	528	1,628	Dawson.....	3,882	2,595	1,265
Comanche.....	211	168	759	Denton.....	108	386	(1)
Cotton.....	1,193	1,649	(1)	De Witt.....	2,281	2,870	23,514
Creek.....	8,148	7,675	7,035	Dickens.....	109	(1)	(1)
Garfield.....	1,381	1,071	5,481	Dimmit.....	495	66	(1)
Garvin.....	19,092	18,323	153,528	Duval.....	9,009	10,666	46,348
Grady.....	5,185	2,817	23,230	Eastland.....	671	864	6,370
Grant.....	821	567	5,235	Ector.....	54,238	47,883	127,875
Harper.....	326	(1)	1,384	Fayette.....	235	350	(1)
Hughes.....	2,097	4,104	7,407	Fisher.....	4,608	4,106	3,335
Jackson.....	153	482	...	Foard.....	536	80	(1)
Jefferson.....	1,194	769	644	Fort Bend.....	7,881	12,204	21,394
Kay.....	2,282	2,424	2,205	Franklin.....	3,796	3,744	1,227
Kingfisher.....	336	217	536	Freestone.....	186	203	10,773
Kiowa.....	341	(1)	1,308	Frio.....	1,590	3,217	11,366
Lincoln.....	4,425	5,953	11,756	Gaines.....	21,026	17,688	18,406
Logan.....	2,749	2,480	8,547	Galveston.....	8,961	8,183	10,663
Love.....	603	162	543	Garza.....	4,453	4,100	(1)
McClain.....	4,106	2,134	15,902	Glasscock.....	1,854	5,608	8,897
Major.....	382	631	7,104	Goliad.....	2,411	2,671	47,514
Marshall.....	2,127	1,368	1,608	Gray.....	13,050	12,206	77,315
Muskogee.....	167	209	(1)	Grayson.....	6,387	6,547	11,560
Noble.....	2,825	2,223	8,339	Gregg.....	29,534	43,086	30,948
Nowata.....	3,687	4,078	82	Guadalupe.....	4,049	3,695	178
Oklfuskee.....	2,774	3,501	1,798	Hansford.....	1,191	(1)	63,893
Oklahoma.....	7,615	9,520	46,333	Hardin.....	7,046	6,913	21,931
Okmulgee.....	1,600	1,107	288	Harris.....	22,067	24,140	57,826
Osage.....	20,612	11,498	7,805	Harrison.....	2,072	1,137	64,792
Pawnee.....	1,836	1,906	344	Haskell.....	3,521	2,892	1,792
Payne.....	4,288	4,087	2,210	Henderson.....	317	863	(1)
Pontotoc.....	2,628	3,363	2,854	Hidalgo.....	1,027	771	147,286
Pottawatomie.....	3,214	3,209	2,005	Hockley.....	11,861	14,236	25,006
Rogers.....	2,046	719	(1)	Hopkins.....	1,129	2,677	1,853
Seminole.....	7,156	8,210	10,828	Houston.....	400	748	14,606
Stephens.....	21,324	22,274	41,916	Howard.....	12,674	12,070	5,027
Texas.....	410	192	137,566	Hutchinson.....	12,002	11,903	117,375
Tillman.....	583	235	(1)	Irion.....	645	39	(1)
Tulsa.....	1,400	1,153	772	Jack.....	3,839	5,369	20,281
Wagoner.....	181	132	25	Jackson.....	10,319	11,109	61,342
				Jasper.....	449	248	2,237

See footnotes at end of table.

Table 6C.—Quantity of Shipments of Crude Petroleum and Natural Gas, by County:  
1958 and 1954—Continued

Division, State, and county	Quantity of shipments			Division, State, and county	Quantity of shipments		
	Crude petroleum (1,000 barrels)		Natural gas 1958 (million cu. ft.)		Crude petroleum (1,000 barrels)		Natural gas 1958 (million cu. ft.)
	1958	1954			1958	1954	
West South Central--Continued				West South Central--Continued			
Texas--Continued				Texas--Continued			
Jefferson.....	6,602	7,923	89,396	Wheeler.....	1,212	1,567	7,586
Jim Hogg.....	1,730	1,095	1,528	Wichita.....	9,215	9,903	11,697
Jim Wells.....	12,093	7,975	117,812	Wilbarger.....	4,918	3,005	684
Jones.....	5,026	7,727	2,698	Willacy.....	1,739	2,668	4,982
Karnes.....	2,040	2,101	4,596	Wilson.....	618	230	943
Kaufman.....	677	1,525	...	Winkler.....	18,666	15,518	56,865
Kent.....	6,630	2,962	267	Wise.....	2,626	449	42,680
King.....	934	1,202	393	Wood.....	14,825	21,254	8,499
Kleberg.....	3,743	(1)	62,895	Yoakum.....	12,576	17,373	25,838
Knox.....	1,875	1,064	(1)	Young.....	6,116	4,878	6,446
Lamb.....	516	517	(1)	Zapata.....	649	813	772
La Salle.....	261	81	(1)	Zavala.....	67	(1)	(1)
Lavaca.....	748	290	50,321	Other counties.....	2,980	11,050	158,033
Leon.....	115	(1)	12,337	Offshore.....	433	516	15,526
Liberty.....	13,554	11,097	24,787	Undistributed.....	10,218	13,187	10,256
Limestone.....	289	426	1,446	Mountain, total.....	302,744	225,283	949,770
Lipscomb.....	107	(1)	(1)				
Live Oak.....	2,129	1,239	61,032	Montana, total.....	28,374	13,771	30,168
Loving.....	1,819	1,534	1,411				
Lubbock.....	662	423	291	Carbon.....	(1)	1,867	2,957
Lynn.....	255	63	...	Daniels.....	114	(1)	...
McMullen.....	627	678	15,919	Glacier.....	2,154	2,381	9,262
Madison.....	90	81	(1)	Musselshell.....	814	412	...
Marion.....	2,874	862	5,177	Pondera.....	273	409	...
Martin.....	896	544	(1)	Rosebud.....	1,590	(1)	...
Matagorda.....	4,272	5,438	90,412	Teton.....	213	192	...
Medina.....	122	(1)	...	Toole.....	798	1,426	(1)
Midland.....	12,051	11,612	48,145	Other counties.....	22,370	6,974	17,419
Mitchell.....	1,934	979	454	Undistributed.....	48	110	530
Montague.....	5,074	7,673	3,522	Wyoming, total.....	108,100	91,131	127,360
Montgomery.....	6,969	10,405	18,542	Big Horn.....	10,980	14,636	7,714
Moore.....	316	52	212,596	Campbell.....	717	(1)	(1)
Navarro.....	1,444	1,881	(1)	Carbon.....	(1)	2,394	431
Newton.....	1,424	963	5,680	Converse.....	5,250	5,946	...
Nolan.....	6,744	3,816	11,535	Fremont.....	14,062	12,733	17,310
Nueces.....	10,681	15,488	192,594	Hot Springs.....	11,793	8,880	(1)
Ochiltree.....	2,627	(1)	11,269	Johnson.....	7,228	6,922	(1)
Orange.....	2,353	2,686	40,828	Laramie.....	658	(1)	...
Palo Pinto.....	166	177	2,843	Natrona.....	11,738	6,187	(1)
Panola.....	1,978	729	294,036	Niobrara.....	931	2,689	721
Parker.....	100	58	15,020	Park.....	24,831	17,901	14,183
Pecos.....	12,059	16,519	94,955	Sublette.....	627	(1)	38,632
Polk.....	1,323	1,731	3,118	Sweetwater.....	(1)	(1)	10,324
Potter.....	...	...	27,414	Washakie.....	6,641	1,736	(1)
Reagan.....	6,870	9,868	39,105	Weston.....	2,323	7,407	(1)
Reeves.....	608	328	3,696	Other counties.....	10,257	1,902	38,005
Refugio.....	13,384	17,245	143,873	Undistributed.....	64	1,798	40
Roberts.....	1,276	1,347	11,778	Colorado, total.....	48,134	44,667	78,503
Runnels.....	3,490	5,995	5,518	Adams.....	664	1,139	730
Rusk.....	22,446	28,611	20,432	Jackson.....	901	(1)	(1)
San Jacinto.....	467	666	3,519	La Plata.....	(1)	(1)	21,850
San Patricio.....	9,850	15,119	55,221	Larimer.....	325	(1)	(1)
Schleicher.....	2,379	3,161	4,740	Logan.....	5,152	7,861	17,401
Scurry.....	33,244	24,433	11,717	Moffat.....	972	984	9,141
Shackelford.....	2,579	2,276	2,940	Morgan.....	7,109	3,976	10,495
Shelby.....	4	(1)	9,654	Rio Blanco.....	23,465	25,357	11,937
Sherman.....	(1)	(1)	161,208	Routt.....	152	(1)	...
Smith.....	1,854	2,808	8,766	Washington.....	5,927	2,704	3,633
Starr.....	5,023	7,392	47,406	Weld.....	2,020	1,314	1,927
Stephens.....	2,801	2,165	10,035	Other counties.....	64	521	1,120
Sterling.....	509	481	651	Undistributed.....	1,383	811	269
Stonewall.....	6,450	7,863	5,946	New Mexico, total.....	93,738	73,774	695,819
Sutton.....	(1)	81	4,317	Chaves.....	2,813	592	(1)
Taylor.....	3,817	1,351	219	Eddy.....	5,667	2,818	14,732
Terry.....	5,063	6,319	1,977	Lea.....	77,599	68,929	390,100
Throckmorton.....	4,062	2,867	910	Rio Arriba.....	371	(1)	17,006
Titus.....	2,849	3,959	...				
Tom Green.....	1,957	988	605				
Tyler.....	620	860	2,710				
Upshur.....	2,826	4,487	3,440				
Upton.....	13,520	19,472	38,867				
Van Zandt.....	5,691	8,832	2,093				
Victoria.....	4,192	6,507	101,452				
Waller.....	426	452	(1)				
Ward.....	18,239	7,548	7,515				
Washington.....	209	318	(1)				
Webb.....	1,106	1,658	5,309				
Wharton.....	4,777	6,442	78,620				

See footnotes at end of table.



Table 6C --Quantity of Shipments of Crude Petroleum and Natural Gas, by County:  
1958 and 1954--Continued

Division, State, and county	Quantity of shipments			Division, State, and county	Quantity of shipments		
	Crude petroleum (1,000 barrels)		Natural gas 1958 (million cu. ft.)		Crude petroleum (1,000 barrels)		Natural gas 1958 (million cu. ft.)
	1958	1954			1958	1954	
Mountain--Continued				Pacific (Washington and California)--Continued			
New Mexico--Continued				California counties--Continued			
Roosevelt.....	436	( <sup>1</sup> )	11,277	Kern.....	82,544	89,056	71,541
San Juan.....	6,221	150	177,565	Kings.....	( <sup>1</sup> )	2,662	11,250
Other counties.....	33	310	82,433	Los Angeles.....	67,287	92,603	66,616
Undistributed.....	601	975	2,706	Madera.....	...	( <sup>1</sup> )	2,454
Utah, Arizona, and Nevada, total..	24,398	1,940	17,920	Orange.....	20,464	24,780	14,631
Utah counties:				Sacramento.....	...	( <sup>1</sup> )	35,055
San Juan.....	20,286	( <sup>1</sup> )	856	San Bernardino.....	249	( <sup>1</sup> )	( <sup>1</sup> )
Uintah.....	3,990	1,651	( <sup>1</sup> )	San Joaquin.....	...	...	4,944
Other counties.....	92	289	16,304	San Luis Obispo.....	1,929	3,046	1,262
Undistributed.....	30	( <sup>1</sup> )	760	Santa Barbara.....	23,333	31,915	14,805
Pacific (Washington and California), total.....	310,195	356,322	425,589	Salano.....	...	...	28,356
California counties:				Tulare.....	( <sup>1</sup> )	( <sup>1</sup> )	3,999
Colusa.....	...	...	4,820	Ventura.....	42,703	47,734	86,443
Fresno.....	31,189	34,034	16,390	Yolo.....	2,558	( <sup>1</sup> )	6,696
Glenn.....	...	...	20,722	Offshore.....	18,897	17,256	17,020
				Undistributed.....	5,544	2,032	1,519
				Other counties.....	13,498	11,204	17,066

<sup>1</sup>Included with figures for other counties.

<sup>2</sup>Figures for Maryland, Virginia, and Florida are included with those for West Virginia.

<sup>3</sup>Figures for Alabama are included with figures for Tennessee.

Table 6D.—Number, Footage, and Cost of Drilling and Equipping Oil, Gas, Dry, and Service Wells

(Represents holes drilled and completed during the year by all operators of oil and gas field properties covered in the census)

Item	United States, total								
	All wells			Wells drilled on contract			Wells drilled by own employees		
	1958 <sup>1</sup>	1954 <sup>1</sup>	1939	1958 <sup>1</sup>	1954 <sup>1</sup>	1939	1958 <sup>1</sup>	1954 <sup>1</sup>	1939
1 Number of wells drilled, total <sup>a</sup> .....	46,954	52,327	22,560	35,192	38,260	14,085	11,762	14,067	8,475
2 Oil wells <sup>9</sup> .....	23,754	28,879	17,263	17,920	21,567	11,004	5,834	7,312	6,259
3 Gas wells <sup>9</sup> .....	4,526	3,885	1,594	3,764	2,923	964	762	962	630
4 Dry holes <sup>10</sup> .....	16,351	16,422	3,703	11,800	11,556	2,117	4,551	4,866	1,586
5 Service wells <sup>10</sup> .....	2,323	3,141	(NA)	1,708	2,214	(NA)	615	927	(NA)
6 Footage drilled, total.....1,000 feet..	193,626	210,801	72,191	152,137	158,430	43,174	41,489	52,371	29,017
7 Oil wells.....do..	92,663	117,897	55,837	73,095	90,201	33,802	19,568	27,696	22,035
8 Gas wells.....do..	24,584	18,510	4,439	20,638	13,694	2,776	3,946	4,816	1,663
9 Dry holes.....do..	72,837	70,213	11,915	55,583	51,369	6,596	17,254	18,844	5,319
10 Service wells.....do..	3,542	4,181	(NA)	2,821	3,166	(NA)	721	1,015	(NA)
11 Average footage drilled per well, all wells.....	4,124	4,029	3,200	4,323	4,141	3,065	3,527	3,723	3,424
12 Oil wells.....do..	3,901	4,082	3,234	4,079	4,182	3,072	3,354	3,788	3,521
13 Gas wells.....do..	5,431	4,764	2,785	5,482	4,685	2,880	5,177	5,006	2,640
14 Dry holes.....do..	4,455	4,276	3,218	4,711	4,445	3,116	3,791	3,873	3,554
15 Service wells.....do..	1,524	1,331	(NA)	1,651	1,430	(NA)	1,172	1,095	(NA)
16 Cost of drilling and equipping wells, total <sup>1a</sup> .....\$1,000..	2,424,798	2,306,947	404,904	1,968,097	1,792,609	239,977	456,701	514,338	164,927
17 Per well.....do..	51.6	44.1	17.9	55.9	46.9	17.0	38.8	36.6	19.5
18 Per foot.....do..	12.52	10.94	5.61	12.94	11.31	5.56	11.01	9.82	5.68
19 Oil wells.....\$1,000..	1,310,523	1,449,654	330,547	1,055,394	1,133,575	197,927	255,129	316,079	132,620
20 Per well.....do..	55.2	50.2	19.1	58.9	52.6	18.0	43.7	43.2	21.2
21 Per foot.....do..	14.14	12.30	5.92	14.44	12.57	5.86	13.04	11.41	6.02
22 Gas wells.....\$1,000..	440,833	263,619	20,926	363,790	194,521	13,931	77,043	69,098	6,995
23 Per well.....do..	97.4	67.9	13.1	96.6	66.5	14.5	101.1	71.8	11.1
24 Per foot.....do..	17.93	14.24	4.71	17.63	14.20	5.02	19.53	14.35	4.21
25 Dry holes.....\$1,000..	649,342	565,745	53,431	528,290	441,847	28,119	121,092	123,898	25,312
26 Per well.....do..	39.7	34.5	14.4	44.8	38.2	13.3	26.6	25.5	16.0
27 Per foot.....do..	8.92	8.06	4.48	9.50	8.60	4.26	7.02	6.57	4.76
28 Service wells.....\$1,000..	24,100	27,929	(NA)	20,623	22,666	(NA)	3,477	5,263	(NA)
29 Per well.....do..	10.4	8.9	(NA)	12.1	10.2	(NA)	5.7	5.7	(NA)
30 Per foot.....do..	6.80	6.68	(NA)	7.31	7.16	(NA)	4.83	5.19	(NA)
31 Cost, excluding amount paid or due contractors, total.....\$1,000..	1,419,729	1,307,142	256,923	998,724	825,862	100,621	421,005	481,280	156,302
32 Oil wells.....do..	837,837	882,471	213,807	602,679	586,098	88,095	235,158	296,373	125,712
33 Gas wells.....do..	271,357	158,102	12,366	198,639	93,073	5,679	72,718	65,029	6,687
34 Dry holes.....do..	297,376	251,697	30,750	187,372	136,587	6,848	110,004	115,110	23,902
35 Service wells.....do..	13,159	14,872	(NA)	10,054	10,104	(NA)	3,125	4,768	(NA)
36 Cost of drilling, total <sup>1a</sup> .....do..	733,444	702,346	131,718	443,591	366,995	30,694	289,853	335,351	101,024
37 Oil wells.....do..	342,629	387,299	98,228	207,486	210,019	23,549	135,143	177,280	74,679
38 Gas wells.....do..	139,973	90,510	6,344	88,642	43,573	1,883	51,331	46,937	4,461
39 Dry holes.....do..	245,331	217,793	27,146	143,842	109,696	5,261	101,489	108,097	21,885
40 Service wells.....do..	5,511	6,744	(NA)	3,621	3,707	(NA)	1,890	3,037	(NA)
41 Cost of casing, total <sup>17</sup> .....do..	384,487	344,683	75,317	310,860	259,857	40,632	73,627	84,826	34,685
42 Oil wells.....do..	244,930	263,011	67,730	194,300	197,872	36,548	50,630	65,139	31,182
43 Gas wells.....do..	86,436	46,485	4,347	72,054	33,891	2,724	14,382	12,594	1,623
44 Dry holes.....do..	48,276	30,419	3,240	40,449	24,320	1,361	7,827	6,099	1,879
45 Service wells.....do..	4,845	4,768	(NA)	4,057	3,774	(NA)	788	994	(NA)
46 Cost of equipment for flowing and pumping and production derrick, total <sup>18</sup> .....do..	301,798	260,113	49,888	244,273	199,010	29,295	57,525	61,103	20,593
47 Oil wells.....do..	250,278	232,161	47,849	200,893	178,207	27,998	49,385	53,954	19,851
48 Gas wells.....do..	44,948	21,107	1,675	37,943	15,609	1,072	7,005	5,498	603
49 Dry holes.....do..	3,769	3,485	364	3,081	2,571	226	688	914	138
50 Service wells.....do..	2,803	3,360	(NA)	2,356	2,623	(NA)	447	737	(NA)
51 Amount paid or due contractors for drilling and equipping wells, total.....do..	1,005,069	999,805	147,981	969,368	966,747	139,355	35,701	33,058	8,626
52 Oil wells.....do..	472,686	567,183	116,740	452,710	547,477	109,832	19,976	19,706	6,908
53 Gas wells.....do..	169,476	105,517	8,560	165,151	101,448	8,252	4,325	4,069	308
54 Dry holes.....do..	351,966	314,048	22,681	340,918	305,260	21,271	11,048	8,788	1,410
55 Service wells.....do..	10,941	13,057	(NA)	10,589	12,562	(NA)	352	495	(NA)

See footnotes at end of table.



in the United States: 1958, 1954, and 1939; and for Divisions, States, and Alaska: 1958

whether they are classified in the Crude Petroleum and Natural Gas Industry or in the Oil and Gas Field Services Industries)

Middle Atlantic									East North Central						
Total			New York			Pennsylvania			Total			Ohio			
All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	
1,019	742	277	346	256	90	673	486	187	4,723	3,109	1,614	964	770	194	1
495	364	131	244	182	62	251	182	69	2,104	1,356	748	489	398	91	2
242	171	71	10	7	3	232	164	68	298	265	33	233	211	22	3
117	85	32	31	28	3	86	57	29	1,897	1,253	644	227	149	78	4
165	122	43	61	39	22	104	83	21	424	235	189	15	12	3	5
2,629	2,005	624	695	549	146	1,934	1,456	478	10,585	7,289	3,296	2,429	2,066	363	6
835	641	194	450	352	98	385	289	96	4,941	3,321	1,620	1,233	1,061	172	7
1,045	765	280	19	13	6	1,026	752	274	794	741	53	653	617	36	8
486	401	85	131	121	10	355	280	75	4,284	2,886	1,398	535	382	153	9
263	198	65	95	63	32	168	135	33	566	341	225	8	6	2	10
2,580	2,702	2,251	2,007	2,143	1,619	2,874	2,997	2,556	2,241	2,345	2,042	2,519	2,682	1,872	11
1,688	1,762	1,482	1,846	1,936	1,583	1,533	1,587	1,391	2,349	2,450	2,166	2,521	2,666	1,889	12
4,315	4,473	3,936	1,850	1,872	1,800	4,422	4,584	4,031	2,660	2,791	1,606	2,801	2,923	1,629	13
4,155	4,715	2,660	4,213	4,301	3,400	4,133	4,922	2,583	2,259	2,304	2,171	2,356	2,563	1,961	14
1,592	1,622	1,509	1,552	1,606	1,455	1,616	1,629	1,567	1,337	1,454	1,192	532	465	800	15
18,005	13,907	4,098	3,373	2,763	610	14,632	11,144	3,488	71,896	52,258	19,638	17,406	15,435	1,971	16
17.7	18.7	14.8	9.7	10.8	6.8	21.7	22.9	18.7	15.2	16.8	12.2	18.1	20.0	10.2	17
6.85	6.94	6.57	4.86	5.04	4.19	7.56	7.65	7.30	6.79	7.17	5.96	7.17	7.47	5.43	18
2,456	1,870	586	1,309	986	323	1,147	884	263	44,209	30,969	13,240	10,771	9,571	1,200	19
5.0	5.1	4.5	5.4	5.4	5.2	4.6	4.9	3.8	21.0	22.8	17.7	22.0	24.0	13.2	20
2.94	2.92	3.02	2.91	2.80	3.29	2.98	3.06	2.74	8.95	9.32	8.17	8.74	9.02	6.98	21
10,515	7,709	2,806	296	258	38	10,219	7,451	2,768	5,570	5,244	326	4,477	4,254	223	22
43.5	45.1	39.5	29.6	36.9	12.7	44.0	45.4	40.7	18.7	19.8	9.9	19.2	20.2	10.1	23
10.07	10.08	10.04	16.00	19.69	7.04	9.96	9.91	10.10	7.03	7.09	6.15	6.86	6.90	6.22	24
4,345	3,844	501	1,476	1,355	121	2,869	2,489	380	17,847	13,021	4,826	2,131	1,594	537	25
37.1	45.2	15.7	47.6	48.4	40.3	33.4	43.7	13.1	9.4	10.4	7.5	9.4	10.7	6.9	26
8.94	9.59	5.89	11.30	11.25	11.86	8.07	8.87	5.07	4.17	4.51	3.45	3.98	4.17	3.51	27
689	484	205	292	164	128	397	320	77	4,270	3,024	1,246	27	16	11	28
4.2	4.0	4.8	4.8	4.2	5.8	3.8	3.9	3.7	10.1	12.9	6.6	1.8	1.3	3.7	29
2.62	2.45	3.16	3.09	2.62	4.00	2.36	2.37	2.34	7.53	8.85	5.53	3.38	2.87	4.58	30
7,544	4,864	2,680	1,189	620	569	6,355	4,244	2,111	40,729	22,230	18,499	9,392	7,514	1,878	31
1,343	758	585	760	437	323	583	321	262	29,411	16,884	12,527	6,471	5,317	1,154	32
4,861	3,269	1,592	67	37	30	4,794	3,232	1,562	2,656	2,348	308	2,170	1,962	208	33
1,015	699	316	212	124	88	803	575	228	6,289	1,589	4,700	735	228	507	34
325	138	187	150	22	128	175	116	59	2,373	1,409	964	16	7	9	35
3,245	1,765	1,480	439	152	287	2,806	1,613	1,193	14,548	4,096	10,452	2,067	991	1,076	36
436	124	312	210	56	154	226	68	158	7,692	2,449	5,243	1,123	590	533	37
1,817	1,014	803	26	5	21	1,791	1,009	782	489	327	162	427	316	111	38
905	623	282	159	91	68	746	532	214	5,203	767	4,436	514	85	429	39
87	4	83	44	...	44	43	4	39	1,164	553	611	3	...	3	40
2,686	2,009	677	483	272	211	2,203	1,737	466	12,074	8,836	3,238	3,893	3,481	412	41
512	335	177	350	222	128	162	113	49	8,833	6,167	2,666	2,659	2,336	323	42
1,947	1,548	399	19	14	5	1,928	1,534	394	1,522	1,447	75	1,164	1,112	52	43
85	57	28	35	21	14	50	36	14	824	619	205	69	32	37	44
142	69	73	79	15	64	63	54	9	895	603	292	1	1	...	45
1,613	1,090	523	267	196	71	1,346	894	452	14,107	9,298	4,809	3,432	3,042	390	46
395	299	96	200	159	41	195	140	55	12,886	8,268	4,618	2,689	2,391	298	47
1,097	707	390	22	18	7	1,075	689	386	645	574	71	579	534	45	48
25	19	6	18	12	6	7	7	...	262	203	59	152	111	41	49
96	65	31	27	7	20	69	58	11	314	253	61	12	6	6	50
10,461	9,043	1,418	2,184	2,143	41	8,277	6,900	1,377	31,167	30,028	1,139	8,014	7,921	93	51
1,113	1,112	1	549	549	...	564	563	1	14,798	14,085	713	4,300	4,254	46	52
5,654	4,440	1,214	229	221	8	5,425	4,219	1,206	2,914	2,896	18	2,307	2,292	15	53
3,330	3,145	185	1,264	1,231	33	2,066	1,914	152	11,558	11,432	126	1,396	1,366	30	54
364	346	18	142	142	...	222	204	18	1,897	1,615	282	11	9	2	55

Table 6D.—Number, Footage, and Cost of Drilling and Equipping Oil, Gas, Dry, and Service Wells

Item	East North Central--Continued								
	Indiana			Illinois			Michigan		
	All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees
1 Number of wells drilled, total <sup>8</sup> .....	895	612	283	2,424	1,409	1,015	446	318	122
2 Oil wells <sup>9</sup> .....	312	204	108	1,153	645	508	150	109	41
3 Gas wells <sup>9</sup> .....	13	10	3	10	7	3	42	37	5
4 Dry holes <sup>10</sup> .....	519	363	156	937	603	334	214	136	76
5 Service wells <sup>10</sup> .....	51	35	16	324	154	170	34	34	...
6 Footage drilled, total.....1,000 feet..	1,489	1,007	482	5,487	3,354	2,133	1,180	862	318
7 Oil wells.....do..	558	361	197	2,720	1,571	1,149	430	328	102
8 Gas wells.....do..	7	5	2	16	12	4	118	107	11
9 Dry holes.....do..	867	599	268	2,297	1,525	772	585	380	205
10 Service wells.....do..	57	42	15	454	246	208	47	47	...
11 Average footage drilled per well, all wells.....	1,664	1,646	1,703	2,264	2,380	2,101	2,684	2,714	2,607
12 Oil wells.....	1,790	1,769	1,829	2,359	2,436	2,261	2,870	3,012	2,490
13 Gas wells.....	504	470	617	1,560	1,643	1,367	2,806	2,882	2,240
14 Dry holes.....	1,671	1,651	1,718	2,451	2,529	2,312	2,736	2,758	2,695
15 Service wells.....	1,118	1,213	910	1,403	1,599	1,225	1,392	1,392	xxx
16 Cost of drilling and equipping wells, total <sup>11</sup> .....\$1,000..	8,884	6,205	2,679	35,874	22,755	13,119	9,732	7,863	1,869
17 Per well.....do..	9.9	10.1	9.5	14.8	16.1	12.9	22.1	24.7	15.3
18 Per foot.....\$1..	5.96	6.16	5.56	6.54	6.78	6.15	8.24	9.11	5.88
19 Oil wells.....\$1,000..	4,992	3,350	1,642	23,913	14,568	9,345	4,533	3,480	1,053
20 Per well.....do..	16.0	16.4	15.2	20.7	22.6	18.4	30.2	31.9	25.7
21 Per foot.....\$1..	8.94	9.28	8.31	8.79	9.27	8.14	10.53	10.60	10.31
22 Gas wells.....\$1,000..	45	34	11	104	83	21	944	873	71
23 Per well.....do..	3.5	3.4	3.7	10.4	11.9	7.0	22.5	23.6	14.2
24 Per foot.....\$1..	6.87	7.23	5.95	6.67	7.22	5.12	8.01	8.19	6.34
25 Dry holes.....\$1,000..	3,420	2,489	931	8,753	6,140	2,613	3,543	2,798	745
26 Per well.....do..	6.6	6.9	6.0	9.3	10.2	7.8	16.6	20.3	9.8
27 Per foot.....\$1..	3.94	4.15	3.47	3.81	4.03	3.38	6.05	7.35	3.64
28 Service wells.....\$1,000..	427	332	95	3,104	1,964	1,140	712	712	...
29 Per well.....do..	8.4	9.5	5.9	9.6	12.8	6.7	20.9	20.9	xxx
30 Per foot.....\$1..	7.49	7.82	6.53	6.83	7.98	5.47	15.04	15.04	xxx
31 Cost, excluding amount paid or due contractors, total.....\$1,000..	4,942	2,377	2,565	21,961	9,694	12,267	4,434	2,645	1,789
32 Oil wells.....do..	3,503	1,927	1,576	16,800	8,003	8,797	2,637	1,637	1,000
33 Gas wells.....do..	20	12	8	64	43	21	402	351	71
34 Dry holes.....do..	1,210	295	915	3,185	625	2,560	1,159	441	718
35 Service wells.....do..	209	143	66	1,912	1,023	889	236	236	...
36 Cost of drilling, total <sup>18</sup> .....do..	2,119	593	1,526	8,877	2,055	6,822	1,485	457	1,028
37 Oil wells.....do..	918	329	589	5,019	1,281	3,738	632	249	383
38 Gas wells.....do..	2	...	2	24	11	13	36	...	36
39 Dry holes.....do..	1,088	197	891	2,792	285	2,507	809	200	609
40 Service wells.....do..	111	67	44	1,042	478	564	8	8	...
41 Cost of casing, total <sup>17</sup> .....do..	1,149	763	386	5,253	3,176	2,077	1,779	1,416	363
42 Oil wells.....do..	970	623	347	4,290	2,539	1,751	914	669	245
43 Gas wells.....do..	9	6	3	21	15	6	328	314	14
44 Dry holes.....do..	105	85	20	321	277	44	329	225	104
45 Service wells.....do..	65	49	16	621	345	276	208	208	...
46 Cost of equipment for flowing and pumping and production derrick, total <sup>18</sup> .....do..	1,674	1,021	653	7,831	4,463	3,368	1,170	772	398
47 Oil wells.....do..	1,615	975	640	7,491	4,183	3,308	1,091	719	372
48 Gas wells.....do..	9	6	3	19	17	2	38	17	21
49 Dry holes.....do..	17	13	4	72	63	9	21	16	5
50 Service wells.....do..	33	27	6	249	200	49	20	20	...
51 Amount paid or due contractors for drilling and equipping wells, total.....do..	3,942	3,828	114	13,913	13,061	852	5,298	5,218	80
52 Oil wells.....do..	1,489	1,423	66	7,113	6,565	548	1,896	1,843	53
53 Gas wells.....do..	25	22	3	40	40	...	542	542	...
54 Dry holes.....do..	2,210	2,194	16	5,568	5,515	53	2,384	2,357	27
55 Service wells.....do..	218	189	29	1,192	941	251	476	476	...

See footnotes at end of table.



in the United States: 1958, 1954, and 1939; and for Divisions, States, and Alaska: 1958—Continued

West North Central												
Total			North Dakota			Nebraska			Kansas			Missouri and South Dakota <sup>3</sup>
All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	
5,563	3,434	2,129	416	333	83	695	516	179	4,429	2,564	1,865	23
2,647	1,699	948	249	223	26	202	158	44	2,193	1,316	877	3
257	203	54	...	...	...	3	3	...	253	199	54	1
2,398	1,542	1,056	162	105	57	482	348	134	1,735	871	864	19
261	190	71	5	5	...	8	7	1	248	178	70	...
20,217	13,116	7,101	2,675	2,321	354	3,940	3,041	899	13,542	7,707	5,835	60
8,949	6,139	2,810	1,679	1,562	117	11,193	(12)	(12)	6,077	(12)	(12)	(11)
1,041	834	207	...	...	...	11,114	11,114	...	1,027	820	207	(11)
9,822	5,846	3,976	975	738	237	112,758	123,074	129,12	6,089	126,887	125,628	(11)
405	297	108	21	21	...	35	...	...	349	...	...	...
3,634	3,819	3,335	6,431	6,969	4,269	5,668	5,892	5,022	3,057	3,006	3,128	2,621
3,381	3,613	2,965	6,744	7,004	4,517	115,818	(12)	(12)	2,771	(12)	(12)	(11)
4,052	4,112	3,828	xxx	xxx	xxx	113,634	113,634	xxx	4,059	4,121	3,828	(11)
4,096	4,356	3,765	6,019	7,030	4,156	115,505	125,765	125,039	3,509	122,912	123,107	(11)
1,548	1,561	1,514	4,176	4,176	xxx	4,314	...	...	1,406	...	...	xxx
157,267	112,872	44,395	40,189	37,099	3,090	21,131	17,297	3,834	95,415	58,242	37,173	532
28.3	32.9	20.9	96.6	111.4	37.2	30.4	33.5	21.4	21.5	22.7	19.9	23.1
7.78	8.61	6.25	15.02	15.99	8.72	5.36	5.69	4.27	7.05	7.56	6.37	8.83
99,862	73,122	26,740	30,447	28,553	1,894	111,830	(12)	(12)	57,585	(12)	(12)	(11)
37.7	43.0	28.2	122.3	128.0	72.8	1157.8	(12)	(12)	26.3	(12)	(12)	(11)
11.16	11.91	9.51	18.13	18.28	16.13	119.92	(12)	(12)	9.48	(12)	(12)	(11)
10,519	8,764	1,755	...	...	...	1199	1199	...	10,420	8,665	1,755	(11)
40.9	43.2	32.5	xxx	xxx	xxx	1124.8	1124.8	xxx	41.2	43.5	32.5	(11)
10.10	10.50	8.49	xxx	xxx	xxx	116.81	116.81	xxx	10.15	10.56	8.49	(11)
44,202	28,839	15,363	9,394	8,198	1,196	119,534	1217,432	124,132	25,274	1249,577	1235,418	(11)
18.4	21.5	14.5	58.0	78.1	21.0	1119.0	1232.7	1222.8	14.6	121.0	1219.6	(11)
4.50	4.93	3.86	9.63	11.1	5.05	113,46	125.67	124.53	4.15	127.20	126.29	(11)
2,684	2,147	537	348	348	...	200	(12)	(12)	2,136	(12)	(12)	...
10.3	11.3	7.6	69.6	69.6	xxx	25.0	(12)	(12)	8.6	(12)	(12)	xxx
6.64	7.24	5.00	16.67	16.67	xxx	5.80	(12)	(12)	6.13	(12)	(12)	xxx
95,836	56,649	39,187	24,037	20,960	3,077	10,982	7,416	3,566	60,543	28,250	32,293	274
68,686	44,610	24,076	19,716	17,825	1,891	118,235	(12)	(12)	40,735	(12)	(12)	(11)
6,171	4,567	1,604	...	...	...	1173	1173	...	6,098	4,494	1,604	(11)
19,218	6,232	12,986	4,078	2,892	1,186	112,797	127,366	123,817	12,343	1223,756	1230,689	(11)
1,761	1,240	521	243	243	...	151	...	...	1,367	...	...	...
42,106	19,700	22,406	11,965	10,113	1,852	4,513	2,094	2,419	25,447	7,493	17,954	181
21,754	12,513	9,241	8,323	7,627	696	112,171	(12)	(12)	11,260	(12)	(12)	(11)
2,850	2,023	827	...	...	...	42	42	...	2,808	1,981	827	(11)
16,734	4,706	12,028	3,487	2,331	1,156	112,401	122,052	122,600	10,846	125,512	1217,127	(11)
768	458	310	155	155	...	80	...	...	533	...	...	...
23,282	16,823	6,459	5,620	5,347	273	2,580	2,051	529	15,040	9,414	5,626	42
18,400	13,270	5,130	4,976	4,733	243	112,167	(12)	(12)	11,257	(12)	(12)	(11)
2,051	1,696	355	...	...	...	1125	1125	...	2,026	1,671	355	(11)
2,286	1,444	842	557	527	30	11396	122,037	12560	1,333	127,743	125,271	(11)
545	413	132	87	87	...	34	...	...	424	...	...	...
30,448	20,126	10,322	6,452	5,500	952	3,889	3,271	618	20,056	11,343	8,713	51
28,532	18,827	9,705	6,417	5,465	952	113,897	(12)	(12)	18,218	(12)	(12)	(11)
1,270	848	422	...	...	...	116	116	...	1,264	842	422	(11)
198	82	116	34	34	...	...	...	...	164	...	...	...
448	369	79	1	1	...	37	123,277	12657	410	1210,501	128,291	...
61,431	56,223	5,208	16,152	16,139	13	10,149	9,881	268	34,872	29,992	4,880	258
31,176	28,512	2,664	10,731	10,728	3	113,595	(12)	(12)	16,850	(12)	(12)	(11)
4,348	4,197	151	...	...	...	1126	1126	...	4,322	4,171	151	(11)
24,984	22,607	2,377	5,316	5,306	10	116,737	1210,066	12315	12,931	1225,821	124,729	(11)
923	907	16	105	105	...	49	...	...	769	...	...	...

Table 6D.-Number, Footage, and Cost of Drilling and Equipping Oil, Gas, Dry, and Service Wells

Item	South Atlantic							East South Central		
	Total			West Virginia			Maryland, Virginia, Georgia, and Florida <sup>4</sup>	Total		
	All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees		All wells	Wells drilled on contract	Wells drilled by own employees
1 Number of wells drilled, total <sup>8</sup> .....	757	609	148	730	582	148	27	2,465	1,576	889
2 Oil wells <sup>9</sup> .....	115	94	21	115	94	21	...	1,131	687	444
3 Gas wells <sup>9</sup> .....	512	411	101	494	393	101	18	208	182	26
4 Dry holes <sup>10</sup> .....	130	104	26	121	95	26	9	777	449	328
5 Service wells <sup>10</sup> .....	...	...	...	...	...	...	...	349	258	91
6 Footage drilled, total.....1,000 feet..	2,238	1,897	341	2,077	1,736	341	161	6,830	5,030	1,800
7 Oil wells.....do...	240	201	39	240	201	39	...	3,041	2,127	914
8 Gas wells.....do...	1,557	1,315	242	1,468	1,226	242	89	766	684	82
9 Dry holes.....do...	441	381	60	369	309	60	72	2,744	2,014	730
10 Service wells.....do...	...	...	...	...	...	...	...	279	205	74
11 Average footage drilled per well, all wells.....	2,957	3,114	2,309	2,846	2,982	2,309	5,953	2,770	3,191	2,024
12 Oil wells.....	2,087	2,135	1,874	2,087	2,135	1,874	xxx	2,688	3,096	2,058
13 Gas wells.....	3,041	3,198	2,401	2,972	3,118	2,401	4,950	3,681	3,756	3,159
14 Dry holes.....	3,393	3,665	2,305	3,053	3,258	2,305	7,959	3,531	4,484	2,227
15 Service wells.....	xxx	xxx	xxx	xxx	xxx	xxx	xxx	798	796	805
16 Cost of drilling and equipping wells, total <sup>11</sup> .....\$1,000..	25,701	22,776	2,925	23,132	20,207	2,925	2,569	70,715	56,263	14,452
17 Per well.....do...	34.0	37.4	19.8	31.7	34.7	19.8	95.1	28.7	35.7	16.3
18 Per foot.....\$1...	11.48	12.01	8.56	11.14	11.64	8.56	15.98	10.36	11.19	8.03
19 Oil wells.....\$1,000..	2,039	1,716	323	2,039	1,716	323	...	36,802	27,072	9,730
20 Per well.....do...	17.7	18.3	15.4	17.7	18.3	15.4	xxx	32.5	39.4	21.9
21 Per foot.....\$1...	8.49	8.55	8.21	8.49	8.55	8.21	xxx	12.10	12.73	10.65
22 Gas wells.....\$1,000..	17,780	15,652	2,128	16,733	14,605	2,128	1,047	8,217	7,449	768
23 Per well.....do...	34.7	38.1	21.1	33.9	37.2	21.1	58.2	39.5	40.9	29.5
24 Per foot.....\$1...	11.42	11.91	8.78	11.40	11.92	8.78	11.75	10.73	10.90	9.35
25 Dry holes.....\$1,000..	5,882	5,408	474	4,360	3,886	474	1,522	24,089	20,455	3,634
26 Per well.....do...	45.2	52.0	18.2	36.0	40.9	18.2	169.1	45.6	51.1	11.1
27 Per foot.....\$1...	13.34	14.19	7.91	11.80	12.56	7.91	21.25	8.78	10.16	4.97
28 Service wells.....\$1,000..	...	...	...	...	...	...	...	1,607	1,287	320
29 Per well.....do...	xxx	xxx	xxx	xxx	xxx	xxx	xxx	4.6	5.0	3.5
30 Per foot.....\$1...	xxx	xxx	xxx	xxx	xxx	xxx	xxx	5.77	6.27	4.37
31 Cost, excluding amount paid or due contractors, total.....\$1,000..	14,452	11,579	2,873	13,360	10,487	2,873	1,092	39,606	25,419	14,187
32 Oil wells.....do...	1,090	780	310	1,090	780	310	...	24,293	14,796	9,497
33 Gas wells.....do...	10,523	8,431	2,092	10,127	8,035	2,092	396	4,914	4,146	768
34 Dry holes.....do...	2,839	2,368	471	2,143	1,672	471	696	9,500	5,887	3,613
35 Service wells.....do...	...	...	...	...	...	...	...	899	590	309
36 Cost of drilling, total <sup>16</sup> .....do...	5,639	3,861	1,778	4,993	3,215	1,778	646	18,401	9,183	9,218
37 Oil wells.....do...	185	46	139	185	46	139	...	9,231	4,092	5,139
38 Gas wells.....do...	3,261	2,079	1,182	3,244	2,062	1,182	17	1,480	935	545
39 Dry holes.....do...	2,193	1,736	457	1,564	1,107	457	629	7,246	3,912	3,334
40 Service wells.....do...	...	...	...	...	...	...	...	444	244	200
41 Cost of casing, total <sup>17</sup> .....do...	6,282	5,712	570	5,922	5,352	570	360	11,917	9,254	2,663
42 Oil wells.....do...	464	385	79	464	385	79	...	7,316	5,113	2,203
43 Gas wells.....do...	5,178	4,701	477	4,883	4,406	477	295	2,163	2,031	132
44 Dry holes.....do...	640	626	14	575	561	14	65	2,193	1,923	270
45 Service wells.....do...	...	...	...	...	...	...	...	245	187	58
46 Cost of equipment for flowing and pumping and production derrick, total <sup>18</sup> .do...	2,531	2,006	525	2,445	1,920	525	86	9,288	6,982	2,306
47 Oil wells.....do...	441	349	92	441	349	92	...	7,746	5,591	2,155
48 Gas wells.....do...	2,084	1,651	433	2,000	1,567	433	84	1,271	1,180	91
49 Dry holes.....do...	6	6	...	4	4	...	2	61	52	9
50 Service wells.....do...	...	...	...	...	...	...	...	210	159	51
51 Amount paid or due contractors for drilling and equipping wells, total.....do...	11,249	11,197	52	9,772	9,720	52	1,477	31,109	30,844	265
52 Oil wells.....do...	949	936	13	949	936	13	...	12,509	12,276	233
53 Gas wells.....do...	7,257	7,221	36	6,606	6,570	36	651	3,303	3,303	...
54 Dry holes.....do...	3,043	3,040	3	2,217	2,214	3	826	14,589	14,568	21
55 Service wells.....do...	...	...	...	...	...	...	...	708	697	11

See footnotes at end of table.



## CRUDE PETROLEUM AND NATURAL GAS

13B-55

in the United States: 1958, 1954, and 1939; and for Divisions, States, and Alaska: 1958--Continued

East South Central--Continued									West South Central						
Kentucky			Mississippi			Tennessee and Alabama <sup>5</sup>			Total			Arkansas			
All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	All wells <sup>1</sup>	Wells drilled on contract <sup>1</sup>	Wells drilled by own employees <sup>1</sup>	All wells	Wells drilled on contract	Wells drilled by own employees	
1,961	1,188	773	406	333	73	98	55	43	26,926	21,050	5,876	755	541	214	1
913	522	391	171	148	23	47	17	30	14,470	11,467	3,003	422	299	123	2
190	167	23	15	12	3	3	3	...	2,309	1,860	449	32	28	4	3
514	244	270	215	170	45	48	35	13	9,074	6,871	2,203	296	211	85	4
344	255	89	5	3	2	...	...	...	1,073	852	221	5	3	2	5
2,588	1,776	812	3,628	2,990	638	614	264	350	122,985	98,161	24,824	2,627	1,807	820	6
928	564	364	1,637	1,406	231	476	157	319	60,966	49,065	11,901	1,305	897	408	7
647	588	59	117	94	23	2	2	...	15,712	12,771	2,941	164	910	412	8
747	426	321	1,861	1,483	378	136	105	31	44,410	34,677	9,733	1,149		9	10
266	198	68	13	7	6	...	...	...	1,897	1,648	249				
1,319	1,495	1,050	8,936	8,979	8,739	6,262	4,787	8,149	4,568	4,663	4,225	3,481	3,341	3,833	11
1,016	1,080	931	9,574	9,501	10,040	10,120	9,208	10,636	4,213	4,279	3,963	3,093	3,001	3,318	12
3,406	3,519	2,590	7,775	7,839	7,517	617	617	xxx	6,804	6,866	6,550	5,135	3,762	4,530	13
1,453	1,746	1,187	8,656	8,721	8,415	2,837	2,996	2,408	4,894	5,057	4,418	3,883			14
772	777	757	2,615	2,409	2,925	xxx	xxx	xxx	1,768	1,933	1,130	1,796		15	
18,706	14,231	4,475	44,877	39,357	5,520	7,132	2,675	4,457	1,656,506	1,339,140	317,366	21,110	16,276	4,834	16
9.5	12.0	5.8	110.5	118.2	75.6	72.8	48.6	103.7	61.5	63.6	54.0	28.0	30.1	22.6	17
7.23	8.01	5.52	12.37	13.16	8.65	11.62	10.16	12.72	13.47	13.64	12.78	8.03	9.00	5.89	18
7,468	4,986	2,482	22,923	19,987	2,936	6,411	2,099	4,312	886,925	721,702	165,223	10,400	7,755	2,645	19
8.2	9.6	6.3	134.1	135.0	127.7	136.4	123.5	143.7	61.3	62.9	55.0	24.6	25.9	21.5	20
8.05	8.84	6.82	14.00	14.21	12.71	13.48	13.41	13.51	14.55	14.71	13.88	7.97	8.64	6.48	21
6,081	5,550	531	2,129	1,892	237	7	7	...	318,569	252,140	66,429	3,762	(14)	(14)	22
32.0	33.2	23.1	141.9	157.7	79.0	2.3	2.3	xxx	138.0	135.6	147.9	117.6	(14)	(14)	23
9.40	9.44	8.91	18.26	20.11	10.51	3.78	3.78	xxx	20.28	19.74	22.59	22.89	(14)	(14)	24
3,632	2,446	1,186	19,743	17,440	2,303	714	569	145	438,604	354,059	84,545	6,847	148,521	142,189	25
7.1	10.0	4.4	91.8	102.6	51.2	14.9	16.3	11.2	48.3	51.5	38.4	23.1	1435.2	1424.1	26
4.86	5.74	3.70	10.61	11.97	6.08	5.24	5.43	4.63	9.88	10.21	8.69	5.96	149.36	145.31	27
1,525	1,249	276	82	38	44	...	...	...	12,408	11,239	1,169	101	(14)	(14)	28
4.4	4.9	3.1	16.4	12.7	22.0	xxx	xxx	xxx	11.6	13.2	5.3	20.2	(14)	(14)	29
5.74	6.30	4.10	6.27	5.26	7.52	xxx	xxx	xxx	6.54	6.82	4.68	11.25	(14)	(14)	30
11,523	7,103	4,420	22,610	17,238	5,372	5,473	1,078	4,395	995,368	701,724	293,644	12,173	7,695	4,478	31
5,320	2,868	2,452	13,702	10,907	2,795	5,271	1,021	4,250	567,344	415,358	151,986	7,230	4,633	2,597	32
3,667	3,136	531	1,244	1,007	237	3	3	...	207,827	144,181	63,646	2,059	3,062	1,881	33
1,695	530	1,165	7,606	5,303	2,303	199	54	145	213,709	136,841	76,868	2,818		66	34
841	569	272	58	21	37	...	...	...	6,488	5,344	1,144			35	
4,045	1,255	2,790	11,411	7,593	3,818	2,945	335	2,610	529,745	320,348	209,397	6,176	3,310	2,866	36
1,579	481	1,098	4,904	3,333	1,571	2,748	278	2,470	239,488	147,133	92,355	2,242	1,059	1,183	37
796	398	398	681	534	147	3	3	...	113,538	67,766	45,772	1,407	2,251	1,683	38
1,253	140	1,113	5,799	3,718	2,081	194	54	140	174,322	103,738	70,584	2,507		20	39
417	236	181	27	8	19	...	...	...	2,397	1,711	686			40	
3,887	3,179	708	6,801	5,717	1,084	1,229	358	871	269,877	218,235	51,642	2,965	2,105	860	41
1,405	883	522	4,687	3,872	815	1,224	358	866	169,390	136,335	33,055	2,240	1,552	688	42
1,825	1,731	94	338	300	38	...	...	...	61,229	48,761	12,468	394	553	172	43
428	385	43	1,760	1,538	222	5	...	5	36,741	30,855	5,886	302		44	44
229	180	49	16	7	9	...	...	...	2,517	2,284	233	29		45	
3,591	2,669	922	4,398	3,928	470	1,299	385	914	195,746	163,141	32,605	3,032	2,280	752	46
2,336	1,504	832	4,111	3,702	409	1,299	385	914	158,466	131,890	26,576	2,748	2,022	726	47
1,046	1,007	39	225	173	52	...	...	...	33,060	27,654	5,406	258	258		48
14	5	9	47	47	...	...	...	...	2,646	2,248	398	9		26	49
195	153	42	15	6	9	...	...	...	1,574	1,349	225	17		50	
7,183	7,128	55	22,267	22,119	148	1,659	1,597	62	661,138	637,416	23,722	8,937	8,581	356	51
2,148	2,118	30	9,221	9,080	141	1,140	1,078	62	319,581	306,344	13,237	3,170	3,122	48	52
2,414	2,414	...	885	885	...	4	4	...	110,742	107,959	2,783	1,703	5,459	308	53
1,937	1,916	21	12,137	12,137	...	515	515	...	224,895	217,218	7,677	4,029		35	54
684	680	4	24	17	7	...	...	...	5,920	5,895	25			55	

Table 6D.—Number, Footage, and Cost of Drilling and Equipping Oil, Gas, Dry, and Service Wells

Item	West South Central--Continued								
	Louisiana			Oklahoma			Texas		
	All wells <sup>1</sup>	Wells drilled on contract <sup>1</sup>	Wells drilled by own employees <sup>1</sup>	All wells	Wells drilled on contract	Wells drilled by own employees	All wells <sup>1</sup>	Wells drilled on contract <sup>1</sup>	Wells drilled by own employees
1 Number of wells drilled, total <sup>a</sup> .....	3,297	2,657	660	6,095	4,639	1,456	16,779	13,233	3,546
2 Oil wells <sup>a</sup> .....	1,631	1,322	309	3,114	2,326	788	9,303	7,520	1,783
3 Gas wells <sup>a</sup> .....	449	362	87	402	329	73	1,426	1,141	285
4 Dry holes <sup>10</sup> .....	1,205	941	264	1,987	1,534	453	5,586	4,185	1,401
5 Service wells <sup>10</sup> .....	12	12	...	592	450	142	464	367	77
6 Footage drilled, total.....1,000 feet..	27,970	21,886	6,084	20,281	16,576	3,705	72,107	57,892	14,215
7 Oil wells.....do...	12,483	9,788	2,695	9,498	7,663	1,835	37,680	30,717	6,963
8 Gas wells.....do...	4,553	3,500	1,053	2,402	8,913	1,870	8,592	7,052	1,541
9 Dry holes.....do...	10,885	8,549	2,336	7,483	8,913	1,870	24,893	19,289	5,604
10 Service wells.....do...	49	49	...	893					
11 Average footage drilled per well, all wells.....	8,484	8,300	9,219	3,327	3,573	2,545	4,297	4,375	4,009
12 Oil wells.....do...	7,654	7,404	8,722	3,050	3,295	2,328	4,050	4,085	3,905
13 Gas wells.....do...	10,140	9,667	12,106	5,974	3,853	2,800	6,026	6,181	5,405
14 Dry holes.....do...	9,033	9,085	8,848	3,766					
15 Service wells.....do...	4,101	4,101	...	1,517	3,853	2,800	4,456	4,609	4,000
16 Cost of drilling and equipping wells, total <sup>13</sup> .....\$1,000..	675,789	523,024	152,765	199,057	172,070	26,987	760,550	627,770	132,780
17 Per well.....do...	205.0	198.3	231.5	32.7	37.1	18.5	45.3	47.4	37.4
18 Per foot.....do...	24.16	25.90	25.11	9.82	10.38	7.28	10.55	10.84	9.34
19 Oil wells.....do...\$1,000..	316,335	245,497	70,838	102,116	86,743	15,373	458,074	381,707	76,367
20 Per well.....do...	194.0	185.7	229.2	32.8	37.3	19.5	49.2	50.8	42.8
21 Per foot.....do...	25.34	25.08	26.28	10.75	11.32	8.38	12.16	12.43	10.97
22 Gas wells.....do...\$1,000..	151,442	114,982	36,460	38,341	(14)	(14)	125,024	99,875	25,149
23 Per well.....do...	337.3	317.6	419.1	95.4	(14)	(14)	87.7	87.5	88.2
24 Per foot.....do...	33.26	32.86	34.62	15.97	(14)	(14)	14.55	14.16	16.33
25 Dry holes.....do...\$1,000..	207,216	161,749	45,467	53,775	1485,327	1411,614	170,766	140,094	30,672
26 Per well.....do...	172.0	171.9	172.2	27.1	136.9	1417.4	30.6	33.5	21.9
27 Per foot.....do...	19.04	18.92	19.46	7.19	149.6	146.21	6.86	7.26	5.47
28 Service wells.....do...\$1,000..	796	796	...	4,825	(14)	(14)	6,686	6,094	592
29 Per well.....do...	66.3	66.3	...	8.2	(14)	(14)	14.4	15.7	7.7
30 Per foot.....do...	16.18	16.18	...	5.37	(14)	(14)	7.11	7.31	5.52
31 Cost, excluding amount paid or due contractors, total.....\$1,000..	451,490	310,288	141,202	108,159	82,793	25,366	423,546	300,948	122,598
32 Oil wells.....do...	224,477	159,625	64,852	62,219	47,790	14,429	273,418	203,310	70,108
33 Gas wells.....do...	105,521	69,766	35,755	22,925	35,003	10,937	77,322	55,764	23,558
34 Dry holes.....do...	121,029	80,434	40,595	20,525					
35 Service wells.....do...	463	463	...	2,490	3,469	10,937	3,469	2,893	576
36 Cost of drilling, total <sup>15</sup> .....do...	282,527	174,885	107,642	49,756	32,887	16,869	191,286	109,266	82,020
37 Oil wells.....do...	119,304	75,209	44,095	20,116	12,352	7,764	97,826	58,513	39,313
38 Gas wells.....do...	63,964	37,229	26,735	11,105	20,535	9,105	37,062	20,951	16,111
39 Dry holes.....do...	99,074	62,262	36,812	17,473					
40 Service wells.....do...	185	185	...	1,062	871	1,130	1,130	775	355
41 Cost of casing, total <sup>17</sup> .....do...	105,111	81,805	23,306	30,909	26,695	4,214	130,892	107,630	23,262
42 Oil wells.....do...	56,369	43,288	13,081	19,601	16,554	3,047	91,180	74,941	16,239
43 Gas wells.....do...	27,904	21,257	6,647	7,708	10,141	1,167	25,223	20,331	4,892
44 Dry holes.....do...	20,652	17,074	3,578	2,729					
45 Service wells.....do...	186	186	...	871	1,431	1,281	1,431	1,281	150
46 Cost of equipment for flowing and pumping and production derrick, total <sup>18</sup> .....do...	63,852	53,598	10,254	27,494	23,211	4,283	101,368	84,052	17,316
47 Oil wells.....do...	48,804	41,128	7,676	22,502	18,884	3,618	84,412	69,856	14,556
48 Gas wells.....do...	13,653	11,280	2,373	4,112	4,327	665	15,037	12,482	2,555
49 Dry holes.....do...	1,303	1,098	205	323					
50 Service wells.....do...	92	92	...	557	50,324	677	101,429	99,113	2,316
51 Amount paid or due contractors for drilling and equipping wells, total.....do...	224,299	212,736	11,563	90,898	89,277	1,621	337,004	326,822	10,182
52 Oil wells.....do...	91,858	85,872	5,986	39,897	38,953	944	184,656	178,397	6,259
53 Gas wells.....do...	45,921	45,216	705	15,416	50,324	677	47,702	46,111	1,591
54 Dry holes.....do...	86,187	81,315	4,872	33,250					
55 Service wells.....do...	333	333	...	2,335	3,217	3,201	3,217	3,201	16

See footnotes at end of table.



## CRUDE PETROLEUM AND NATURAL GAS

13B-57

in the United States: 1958, 1954, and 1939; and for Divisions, States, and Alaska: 1958-Continued

Mountain														
Total			Montana			Wyoming			Colorado			New Mexico		
All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees	All wells	Wells drilled on contract	Wells drilled by own employees
4,089	3,698	391	324	295	29	706	637	69	830	741	89	1,846	1,672	174
1,879	1,735	144	156	143	13	320	303	17	158	145	13	994	914	80
659	638	21	6	6	...	66	60	6	74	69	5	499	492	7
1,538	1,312	226	161	145	16	316	270	46	592	521	71	351	264	87
13	13	...	1	1	...	4	4	...	6	6	...	2	2	...
21,108	19,273	1,835	1,820	1,678	142	3,726	3,389	337	4,322	3,865	457	9,094	8,367	727
9,507	8,846	661	943	871	72	1,533	1,455	78	835	772	63	4,761	4,431	330
3,445	3,339	106	37	37	...	446	408	38	392	367	25	2,502	2,471	31
8,119	7,051	1,068	840	770	70	1,747	1,526	221	3,072	2,703	369	1,831	1,465	366
37	37	...	...	...	...	...	...	...	23	23	...	...	...	...
5,162	5,212	4,692	5,618	5,688	4,909	5,276	5,319	4,878	5,208	5,216	5,137	4,926	5,004	4,175
5,060	5,098	4,597	6,047	6,093	5,547	4,790	4,802	4,572	5,285	5,323	4,863	4,790	4,848	4,131
5,226	5,232	5,036	6,148	6,148	xxx	6,753	6,793	6,360	5,300	5,316	5,075	5,013	5,023	4,353
5,280	5,376	4,721	5,186	5,273	4,391	5,458	5,569	4,797	5,190	5,190	5,191	5,187	5,510	4,201
2,786	2,786	xxx	...	...	xxx	...	...	xxx	3,807	3,807	xxx	...	...	xxx
301,495	281,015	20,480	26,666	25,335	1,331	55,192	50,274	4,918	33,079	30,573	2,506	138,939	131,271	7,668
73.7	76.0	52.4	82.3	85.9	45.9	78.2	78.9	71.3	39.9	41.3	28.2	75.3	78.5	44.1
14.28	14.58	11.16	14.65	15.10	9.35	14.82	14.84	14.61	7.65	7.91	5.48	15.28	15.69	10.56
154,800	144,198	10,602	16,296	15,176	1,120	24,682	23,520	1,162	9,448	8,798	650	71,073	66,350	4,723
82.4	85.1	73.6	104.5	106.1	86.2	77.1	77.6	68.4	59.8	60.7	50.0	71.5	72.6	59.0
16.28	16.30	16.01	17.27	17.42	15.53	16.10	16.17	14.95	11.31	11.40	10.28	14.93	14.98	14.29
66,393	64,154	2,239	1,115	1,115	...	10,639	9,591	1,048	6,620	6,262	358	46,087	45,578	509
100.7	100.6	106.6	185.8	185.8	xxx	161.2	159.8	174.7	89.5	90.8	71.6	92.4	92.6	72.7
19.28	19.22	21.17	30.23	30.23	xxx	23.87	23.5	27.46	16.88	17.07	14.11	18.42	18.44	16.7
80,012	72,373	7,639	15,255	15,044	211	15,871	15,163	2,708	16,843	15,345	1,498	15,779	15,343	2,436
52.0	55.2	33.8	15,57.1	15,61.9	13.2	15,62.1	15,62.6	58.9	28.5	29.5	21.1	15,61.7	15,72.7	28.0
9.85	10.26	7.16	15,11.02	15,11.75	3.00	15,11.38	15,11.25	12.27	5.48	5.68	4.06	15,11.89	15,13.20	6.66
290	290	...	(15)	(15)	...	(15)	(15)	...	168	168	...	(15)	(15)	...
22.3	22.3	xxx	(15)	(15)	xxx	(15)	(15)	xxx	28.0	28.0	xxx	(15)	(15)	xxx
8.01	8.01	xxx	(15)	(15)	xxx	(15)	(15)	xxx	7.35	7.35	xxx	(15)	(15)	xxx
151,751	132,156	19,595	13,915	12,584	1,331	29,298	24,542	4,756	15,392	13,321	2,071	67,602	60,169	7,433
88,630	78,357	10,273	10,296	9,176	1,120	15,121	13,982	1,139	5,762	5,192	570	38,302	33,752	4,550
32,443	30,315	2,128	544	544	...	5,952	4,995	957	3,818	3,474	344	21,074	20,571	503
30,567	23,373	7,194	3,075	2,864	211	8,225	5,565	2,660	5,754	4,597	1,157	8,226	5,846	2,380
111	111	...	...	...	...	...	...	...	58	58	...	...	...	...
76,318	61,274	15,044	7,090	6,169	921	16,397	12,583	3,814	8,929	7,314	1,615	29,013	23,562	5,451
34,717	27,974	6,743	4,119	3,407	712	5,884	5,176	708	1,630	1,375	255	13,855	10,994	2,861
15,581	13,971	1,610	396	396	...	3,412	2,709	703	2,283	2,034	249	8,733	8,337	396
25,977	19,286	6,691	2,575	2,366	209	7,101	4,698	2,403	5,000	3,889	1,111	6,425	4,231	2,194
43	43	...	...	...	...	...	...	...	16	16	...	...	...	...
39,452	36,986	2,466	2,891	2,699	192	5,942	5,401	541	3,288	3,076	212	23,062	21,992	1,070
23,594	21,898	1,696	2,405	2,215	190	3,410	3,283	127	1,550	1,443	107	12,617	11,740	877
11,689	11,334	355	88	88	...	1,500	1,327	173	993	934	59	8,880	8,801	79
4,117	3,702	415	398	396	2	1,032	791	241	709	663	46	1,565	1,451	114
52	52	...	...	...	...	...	...	...	36	36	...	...	...	...
35,981	33,896	2,085	3,934	3,716	218	6,959	6,558	401	3,175	2,931	244	15,527	14,615	912
30,319	28,485	1,834	3,772	3,554	218	5,827	5,523	304	2,582	2,374	208	11,830	11,018	812
5,173	5,010	163	60	60	...	1,040	959	81	542	506	36	3,461	3,433	28
473	385	88	102	102	...	92	76	16	45	45	...	236	164	72
16	16	...	...	...	...	...	...	...	6	6	...	...	...	...
149,744	148,854	890	12,751	12,751	...	25,894	25,732	162	17,687	17,252	435	71,337	71,102	235
66,170	65,836	334	6,000	6,000	...	9,561	9,538	23	3,686	3,606	80	32,771	32,598	173
33,950	33,839	111	571	571	...	4,687	4,596	91	2,802	2,788	14	25,013	25,007	6
49,445	49,000	445	6,180	6,180	...	11,646	11,598	48	11,089	10,748	341	13,553	13,497	56
179	179	...	...	...	...	...	...	...	110	110	...	...	...	...

Table 6D.-Number, Footage, and Cost of Drilling and Equipping Oil, Gas, Dry, and Service Wells

Item	Mountain--Continued			Pacific <sup>2</sup> (Washington, Oregon, and California)			Alaska <sup>7</sup>
	Idaho, Arizona, and Utah <sup>6</sup>			All wells <sup>1</sup>	Wells drilled on contract <sup>1</sup>	Wells drilled by own employees <sup>1</sup>	
	All wells	Wells drilled on contract	Wells drilled by own employees				
1 Number of wells drilled, total <sup>8</sup> .....	383	353	30	1,412	974	438	5
2 Oil wells <sup>9</sup> .....	251	230	21	913	518	395	1
3 Gas wells <sup>9</sup> .....	14	11	3	41	34	7	...
4 Dry holes <sup>10</sup> .....	118	112	6	420	384	36	4
5 Service wells <sup>10</sup> .....	...	...	...	38	38	...	...
6 Footage drilled, total.....1,000 feet..	2,146	1,974	172	7,034	5,366	1,668	53
7 Oil wells.....do...	1,435	1,317	118	4,184	2,755	1,429	(D)
8 Gas wells.....do...	68	56	12	224	189	35	...
9 Dry holes.....do...	643	601	42	2,531	2,327	204	(D)
10 Service wells.....do...	...	...	...	95	95	...	...
11 Average footage drilled per well, all wells.....	5,604	5,593	5,739	4,982	5,510	3,808	10,645
12 Oil wells.....do...	5,719	5,727	5,641	4,583	5,319	3,618	(D)
13 Gas wells.....do...	4,823	5,070	3,920	5,465	5,574	4,931	xxx
14 Dry holes.....do...	5,453	5,370	6,990	6,027	6,060	5,675	(D)
15 Service wells.....do...	xxx	xxx	xxx	2,494	2,494	xxx	xxx
16 Cost of drilling and equipping wells, total <sup>13</sup> .....\$1,000..	47,619	43,562	4,057	123,213	89,866	33,347	4,005
17 Per well.....do...	124.3	123.4	135.1	87.3	92.3	76.1	801.0
18 Per foot.....do...	22.18	22.07	23.54	17.52	16.75	19.99	75.25
19 Oil wells.....do...	33,301	30,354	2,947	83,430	54,745	28,685	(D)
20 Per well.....do...	132.7	132.0	140.3	91.4	105.7	72.6	(D)
21 Per foot.....do...	23.20	23.05	24.83	19.94	19.87	20.07	(D)
22 Gas wells.....do...	1,932	1,608	324	3,270	2,678	592	...
23 Per well.....do...	138.0	146.2	108.0	79.8	78.8	84.6	xxx
24 Per foot.....do...	28.61	28.82	27.55	14.60	14.13	17.15	xxx
25 Dry holes.....do...	12,386	11,600	786	34,361	30,291	4,070	(D)
26 Per well.....do...	105.0	103.6	131.0	81.8	78.9	113.1	(D)
27 Per foot.....do...	19.25	19.29	18.74	13.58	13.02	19.92	(D)
28 Service wells.....do...	...	...	...	2,152	2,152	...	...
29 Per well.....do...	xxx	xxx	xxx	56.6	56.6	xxx	xxx
30 Per foot.....do...	xxx	xxx	xxx	22.71	22.71	xxx	xxx
31 Cost, excluding amount paid or due contractors, total..\$1,000..	25,544	21,540	4,004	74,443	44,103	30,340	(D)
32 Oil wells.....do...	19,149	16,255	2,894	57,040	31,136	25,904	(D)
33 Gas wells.....do...	1,055	731	324	1,962	1,382	580	...
34 Dry holes.....do...	5,340	4,554	786	14,239	10,383	3,856	(D)
35 Service wells.....do...	...	...	...	1,202	1,202	...	...
36 Cost of drilling, total <sup>16</sup> .....do...	14,889	11,646	3,243	43,442	23,364	20,078	(D)
37 Oil wells.....do...	9,229	7,022	2,207	29,126	13,155	15,971	(D)
38 Gas wells.....do...	757	495	262	957	527	430	...
39 Dry holes.....do...	4,903	4,129	774	12,751	9,074	3,677	(D)
40 Service wells.....do...	...	...	...	608	608	...	...
41 Cost of casing, total <sup>17</sup> .....do...	4,269	3,818	451	18,917	13,005	5,912	(D)
42 Oil wells.....do...	3,612	3,217	395	16,421	10,797	5,624	(D)
43 Gas wells.....do...	228	184	44	657	536	121	...
44 Dry holes.....do...	429	417	12	1,390	1,223	167	(D)
45 Service wells.....do...	...	...	...	449	449	...	...
46 Cost of equipment for flowing and pumping and production derrick, total <sup>18</sup> .....do...	6,386	6,076	310	12,084	7,734	4,350	(D)
47 Oil wells.....do...	6,308	6,016	292	11,493	7,184	4,309	(D)
48 Gas wells.....do...	70	52	18	348	319	29	...
49 Dry holes.....do...	8	8	...	98	86	12	...
50 Service wells.....do...	...	...	...	145	145	...	...
51 Amount paid or due contractors for drilling and equipping wells, total.....do...	22,075	22,017	58	48,770	45,763	3,007	(D)
52 Oil wells.....do...	14,152	14,094	58	26,390	23,609	2,781	(D)
53 Gas wells.....do...	877	877	...	1,308	1,296	12	...
54 Dry holes.....do...	7,046	7,046	...	20,122	19,908	214	(D)
55 Service wells.....do...	...	...	...	950	950	...	...

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Includes the number, footage, and costs for offshore wells for which statistics are shown separately in table 6E.



in the United States. 1958, 1954, and 1939; and for Divisions, States, and Alaska. 1958—Continued

## FOOTNOTES FOR TABLE 6D--13B

- <sup>2</sup>Represents California, 6 dry holes in Washington drilled on contract, and 5 dry holes in Oregon drilled on contract.
- <sup>3</sup>Represents 1 oil well, 1 gas well, and 8 dry holes in Missouri, all drilled on contract; and 2 oil wells and 11 dry holes in South Dakota, of which 1 oil well and 1 dry hole were drilled by own employees.
- <sup>4</sup>Represents 3 gas wells in Maryland; 15 gas wells and 1 dry hole in Virginia; 1 dry hole in Georgia; and 7 dry holes in Florida. All of these wells were drilled on contract.
- <sup>5</sup>Represents 1 oil well, 3 gas wells, and 18 dry holes in Tennessee, of which 2 gas wells and 7 dry holes were drilled on contract; and 46 oil wells and 30 dry holes in Alabama, of which 17 oil wells and 28 dry holes were drilled on contract.
- <sup>6</sup>Represents Utah, 1 dry hole in Idaho drilled on contract, and 1 oil well and 11 dry holes in Arizona drilled on contract.
- <sup>7</sup>Represents 1 oil well and 3 dry holes drilled on contract and 1 dry hole drilled by own employees.
- <sup>8</sup>Represents wells drilled which were completed during the year, wells completed during the year although begun in the previous year, and wells drilled and abandoned before completion during the year.
- <sup>9</sup>For wells that produced both oil and gas, respondents were requested to classify the wells according to the more valuable total product. They were requested to classify "distillate" wells as oil wells if the value of all liquids produced was greater than the value of gas produced; but otherwise to classify them as gas wells.
- <sup>10</sup>Dry holes represent wells drilled and abandoned without commercial production during the year. Service wells include gas-injection, water-injection, and brine-disposal wells. The distinction between dry holes and service wells was not made uniformly by all respondents; hence the combined figures for dry holes and service wells in a State are somewhat more significant than the separate figures for each class.
- <sup>11</sup>Figures for Missouri and South Dakota are included with those for Nebraska.
- <sup>12</sup>Figures for oil wells are included with those for dry holes and service wells. For Nebraska, see also footnote 11.
- <sup>13</sup>Represents only the tangible costs specified; respondents were asked to exclude taxes, interest on investment, overhead costs, etc.
- <sup>14</sup>Figures for gas wells and service wells are included with those for dry holes.
- <sup>15</sup>Figures for service wells are included with those for dry holes.
- <sup>16</sup>Represents the cost of labor, supplies, water, fuel, and power used in such operations as: moving on to location all equipment and supplies incidental to operations; excavating for and building derrick foundation; digging slush pits; erecting and wiring derricks; building loading and pipe racks; laying fuel and water lines; rigging up; drilling hole; making straight-hole tests or surveys; coring; well logging and core analysis; testing formations; mud conditioning; reaming; running casing, screen, and liner; cleaning out, bailing, and swabbing; fishing; repairing and maintaining rig and derrick; tearing down rig; dismantling derrick and racks; and moving equipment off location. It includes tool charges and rentals, but excludes the value of materials salvaged after use and the cost of the drilling derrick if it was left over well for production after completion.
- <sup>17</sup>Includes the cost of delivering and installing equipment. Excludes the value of equipment that was salvaged and used again but includes the cost of salvaging.
- <sup>18</sup>See footnote 17. Includes tubing, wellhead fittings, gas traps, flow tanks, etc., drilling derricks retained over well after completion, and special-production derricks.

Table 6E.—Offshore Operations. Number of Wells, Production, and Number, Footage, and Costs of Drilling and Equipping Oil and Gas Wells and Dry Holes, by Divisions and States. 1958

(For census purposes, an offshore well is defined as one which is bottomed at, or produces from, a point which lies seaward from the normal or ordinary coast line. The term does not apply to wells drilled to and producing from points underlying inland waters. All data in this table are included in other tables of this report)

Item	Unit of measure	United States, total		South Central				Pacific (California)	
		1958	1954	Louisiana <sup>1</sup>		Texas		1958	1954
				1958	1954	1958	1954		
Number of establishments operating producing wells or drilling wells for own account <sup>2</sup> .....	Number.....	41	25	25	12	10	7	6	6
Number of wells producing during December 1958, total <sup>3</sup> .....	...do.....	1,705	(NA)	920	(NA)	31	(NA)	754	(NA)
Oil wells.....	...do.....	1,599	(NA)	831	(NA)	14	(NA)	754	(NA)
Gas wells.....	...do.....	106	(NA)	89	(NA)	17	(NA)	...	(NA)
Crude petroleum shipped and used in lease operations <sup>4</sup> .....	1,000 bbls.....	58,487	28,727	39,172	10,954	411	516	18,904	17,257
Natural gas produced, total.....	Million cu. ft.	230,622	77,759	197,689	64,274	(D)	(D)	(D)	(D)
From oil wells.....	...do.....	72,552	21,655	(D)	8,170	(D)	(D)	(D)	(D)
From gas wells.....	...do.....	158,070	56,104	(D)	56,104	(D)	...	...	...
Number of employees on March 15.....	Number.....	1,943	1,383	1,455	932	34	178	454	273
Number of wells drilled, total.....	...do.....	414	248	357	154	16	30	41	64
Oil wells, total <sup>3</sup> .....	...do.....	243	184	206	103	...	18	37	63
Drilled on contract.....	...do.....	210	100	187	76	...	2	23	22
Drilled by own company.....	...do.....	33	84	19	27	...	16	14	41
Gas wells, total <sup>3</sup> .....	...do.....	64	28	60	25	4	3	...	...
Drilled on contract.....	...do.....	41	15	37	13	4	2	...	...
Drilled by own company.....	...do.....	23	13	23	12	...	1	...	...
Dry holes, total <sup>5</sup> .....	...do.....	107	36	91	26	12	9	4	1
Drilled on contract <sup>5</sup> .....	...do.....	86	25	72	21	12	3	2	1
Drilled by own company.....	...do.....	21	11	19	5	...	6	2	...
Footage drilled, total.....	1,000 ft.....	63,993	2,217	3,673	1,497	149	251	171	469
Oil wells.....	...do.....	2,146	1,529	(D)	925	...	(D)	(D)	(D)
Gas wells.....	...do.....	726	309	683	285	43	24	...	...
Dry holes <sup>5</sup> .....	...do.....	1,121	379	(D)	287	106	(D)	(D)	(D)
Average footage drilled per well, all wells.....	...ft.....	79,644	8,940	10,289	9,721	9,313	8,367	4,165	7,328
Oil wells.....	...do.....	8,832	8,310	(D)	8,981	...	(D)	(D)	(D)
Gas wells.....	...do.....	11,336	11,036	11,379	11,400	10,687	8,000	...	...
Dry holes <sup>5</sup> .....	...do.....	10,478	10,528	(D)	11,038	8,855	(D)	(D)	(D)
Cost of drilling and equipping wells, total <sup>6</sup> .....	\$1,000.....	183,091	68,385	171,874	52,898	6,335	7,787	4,882	7,700
Per well.....	...do.....	9442.2	275.7	481.4	343.5	395.9	259.6	119.1	120.3
Per foot.....	\$1.....	1045.86	30.85	46.79	35.34	42.52	31.02	28.59	16.42
Oil wells.....	\$1,000.....	94,633	36,598	(D)	25,864	...	(D)	(D)	(D)
Per well.....	...do.....	11389.4	198.9	(D)	251.1	...	(D)	(D)	(D)
Per foot.....	\$1.....	1244.09	23.94	(D)	27.96	...	(D)	(D)	(D)
Gas wells.....	\$1,000.....	43,338	16,749	41,118	15,881	2,220	868	...	...
Per well.....	...do.....	13677.2	598.2	685.3	635.2	555.0	289.3	...	...
Per foot.....	\$1.....	1459.74	54.20	60.23	55.72	51.93	36.17	...	...
Dry holes <sup>5</sup> .....	\$1,000.....	45,120	15,038	(D)	11,153	4,115	(D)	(D)	(D)
Per well.....	...do.....	15421.7	417.7	(D)	429.0	342.9	(D)	(D)	(D)
Per foot.....	\$1.....	1640.24	39.68	(D)	38.86	38.73	(D)	(D)	(D)
Cost, excluding amount paid contractors, total....	\$1,000.....	121,969	51,890	116,280	39,611	2,359	5,575	3,330	6,704
Oil wells.....	...do.....	65,308	27,532	(D)	18,709	...	(D)	(D)	(D)
Gas wells.....	...do.....	28,702	13,237	27,745	12,894	957	343	...	...
Dry holes <sup>5</sup> .....	...do.....	27,959	11,121	(D)	8,008	1,402	(D)	(D)	(D)
Cost of drilling, total <sup>17</sup> .....	...do.....	85,830	39,592	82,216	30,771	1,609	4,572	2,005	4,249
Oil wells.....	...do.....	40,556	18,283	(D)	12,573	...	(D)	(D)	(D)
Gas wells.....	...do.....	20,717	11,293	20,168	11,042	549	251	...	...
Dry holes <sup>5</sup> .....	...do.....	24,557	10,016	(D)	7,156	1,060	(D)	(D)	(D)

See footnotes at end of table.



Table 6E.—Offshore Operations, Number of Wells, Production, and Number, Footage, and Costs of Drilling and Equipping Oil and Gas Wells and Dry Holes, by Divisions and States. 1958

Item	Unit of measure	United States, total		South Central				Pacific (California)	
		1958	1954	Louisiana <sup>1</sup>		Texas		1958	1954
				1958	1954	1958	1954		
Cost of drilling and equipping wells--Continued									
Cost, excluding amount paid contractors--Continued									
Cost of casing, total <sup>18</sup> .....	\$1,000.....	21,066	8,545	19,597	6,084	598	628	871	1,833
Oil wells.....	...do.....	12,638	6,238	(D)	4,001	...	(D)	(D)	(D)
Gas wells.....	...do.....	5,505	1,430	5,249	1,361	256	69	...	...
Dry holes <sup>5</sup> .....	...do.....	2,923	877	(D)	722	342	(D)	(D)	(D)
Cost of equipment for flowing and pumping and production derrick, total <sup>19</sup> .....	...do.....	15,073	3,753	14,467	2,756	152	375	454	622
Oil wells.....	...do.....	12,114	3,011	(D)	2,135	...	(D)	(D)	(D)
Gas wells.....	...do.....	2,480	514	2,328	491	152	23	...	...
Dry holes <sup>5</sup> .....	...do.....	479	228	(D)	130	...	(D)	(D)	(D)
Amount paid or due contractors for drilling or equipping wells, total <sup>20</sup> .....	...do.....	61,122	16,495	55,594	13,287	3,976	2,212	1,552	996
Oil wells.....	...do.....	29,325	9,065	(D)	7,155	...	(D)	(D)	(D)
Gas wells.....	...do.....	14,636	3,513	13,373	2,987	1,263	526	...	...
Dry holes <sup>5</sup> .....	...do.....	17,161	3,917	(D)	3,145	2,713	(D)	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>For 1954, includes figures for the drilling of one dry hole in Mississippi.

<sup>2</sup>Offshore data were included with those for the State contiguous to such operations, as well as partly reported separately. They are included throughout other tables of this report, but also shown separately in this table.

<sup>3</sup>For wells that produced both oil and gas, respondents were requested to classify the wells according to the more valuable total product.

<sup>4</sup>For 1958 and 1954, crude petroleum used in lease operations amounted to less than 0.1 percent of the total production of crude petroleum.

<sup>5</sup>For 1958, includes data for one service well drilled in California.

<sup>6</sup>Of the total footage drilled, wells drilled on contract accounted 3,228 thousand feet, and wells drilled by own company for 765 thousand feet.

<sup>7</sup>Average footage drilled per well was 9,579 feet for those drilled on contract, and 9,928 feet for wells drilled by own company.

<sup>8</sup>Represents only the tangible costs specified below; respondents were asked to exclude taxes, interest on investment, overhead costs, etc.

<sup>9</sup>Cost of drilling and equipping wells drilled on contract was \$435.4 thousand per well, and for those drilled by own company \$472.3 thousand per well.

<sup>10</sup>Cost per foot for drilling and equipping wells drilled on contract was \$45.45, and for those drilled by own company \$47.57.

<sup>11</sup>Cost per well for drilling and equipping oil wells drilled on contract was \$396.0 thousand and drilled by own company \$347.6 thousand.

<sup>12</sup>Cost per foot for drilling and equipping oil wells drilled on contract was \$43.91 and drilled by own company \$45.49.

<sup>13</sup>Cost per well for drilling and equipping gas wells drilled on contract was \$747.6 thousand and drilled by own company \$551.7 thousand.

<sup>14</sup>Cost per foot for drilling and equipping gas wells drilled on contract was \$66.10 and drilled by own company \$48.46.

<sup>15</sup>Cost per well for drilling dry holes drilled on contract was \$382.7 thousand and drilled by own company \$581.2 thousand.

<sup>16</sup>Cost per foot for drilling dry holes drilled on contract was \$37.80 and drilled by own company \$48.73.

<sup>17</sup>Total cost of drilling was \$56,726 thousand for wells drilled on contract and \$29,104 thousand for wells drilled by own company.

<sup>18</sup>Cost of casing was \$17,261 thousand for wells drilled on contract and \$3,805 thousand for wells drilled by own company.

<sup>19</sup>Cost of equipment for flowing and pumping and production derrick was \$13,490 thousand for wells drilled on contract and \$1,583 thousand for wells drilled by own company.

<sup>20</sup>Amount paid or due contractors for drilling and equipping wells was \$59,248 thousand for wells drilled on contract and \$1,874 thousand for wells drilled by own company.

Table 6F.—Number of Wells Producing, Shut-In, Drilled, Sold or Leased, Abandoned, Services Industries, by Divisions

Division and State	Producing in December				Shut-in or idle during all of December				Drilled and completed in 1958		
	Oil wells <sup>3</sup>		Gas wells <sup>3</sup>		Oil wells <sup>3</sup>		Gas wells <sup>3</sup>		Total	Oil wells <sup>3</sup>	Gas wells <sup>3</sup>
	1958	1957	1958	1957	1958	1957	1958	1957			
1 United States, total.....	472,836	464,586	74,747	71,345	38,825	34,288	7,919	7,930	46,954	23,754	4,526
2 Middle Atlantic, total.....	59,442	62,119	16,680	16,585	6,324	5,680	688	878	1,019	495	242
3 New York.....	13,066	13,933	979	978	875	899	5	5	346	244	10
4 Pennsylvania.....	46,376	48,186	15,701	15,607	5,449	4,781	683	873	673	251	232
5 East North Central, total.....	42,583	41,972	4,598	4,546	3,375	2,924	130	116	4,723	2,104	298
6 Ohio.....	8,657	8,628	4,247	4,237	368	349	83	73	964	489	233
7 Indiana.....	4,238	4,051	143	130	181	146	5	5	895	312	13
8 Illinois.....	26,075	25,848	31	31	2,736	2,332	17	7	2,424	1,153	10
9 Michigan.....	3,613	3,445	177	148	90	97	25	31	440	150	42
10 West North Central, total.....	39,673	38,832	5,243	5,091	1,904	1,613	270	232	5,563	2,647	257
11 Missouri.....	125	124	3	2	...	...	...	...	10	1	1
12 North Dakota.....	1,142	948	10	10	68	11	...	...	416	249	...
13 South Dakota.....	3	3	...	...	2	...	...	...	13	2	...
14 Nebraska.....	1,170	1,037	55	56	95	77	7	6	695	202	3
15 Kansas.....	37,233	36,720	5,175	5,023	1,739	1,525	263	226	4,429	2,193	253
16 South Atlantic, total.....	9,357	9,412	14,672	14,134	589	506	524	692	757	115	512
17 Maryland.....	...	...	35	35	...	...	1	1	3	...	3
18 Virginia.....	5	5	80	83	...	...	56	50	16	...	15
19 West Virginia.....	9,341	9,396	14,557	14,016	589	506	467	641	730	115	494
20 Georgia.....	...	...	...	...	...	...	...	...	1	...	...
21 Florida.....	11	11	...	...	...	...	...	...	7	...	...
22 East South Central, total.....	17,058	16,830	4,255	4,123	524	531	281	256	2,465	1,131	208
23 Kentucky.....	14,919	14,814	3,964	3,837	335	379	232	204	1,961	913	190
24 Tennessee.....	6	6	19	17	...	...	1	...	22	1	3
25 Alabama.....	237	192	1	1	3	4	...	...	76	46	...
26 Mississippi.....	1,896	1,818	271	268	186	148	48	52	406	171	15
27 West South Central, total.....	247,132	238,402	22,228	20,523	16,988	15,470	5,158	4,886	26,926	14,470	2,309
28 Arkansas.....	4,473	4,140	218	200	328	321	69	54	755	422	32
29 Louisiana.....	18,084	16,873	4,743	4,498	1,740	1,657	1,279	1,215	3,297	1,631	449
30 Oklahoma.....	61,266	59,461	3,889	3,634	6,100	5,685	845	775	6,095	3,114	402
31 Texas.....	163,309	157,928	13,378	12,191	8,820	7,807	2,965	2,842	16,779	9,303	1,426
32 Mountain, total.....	22,920	21,669	6,476	5,773	2,541	2,336	704	699	4,089	1,879	659
33 Montana.....	3,510	3,523	1,142	1,159	309	226	45	38	324	156	6
34 Idaho.....	...	...	...	...	...	...	...	...	1	...	...
35 Wyoming.....	6,113	5,982	295	286	1,384	1,363	178	133	706	320	66
36 Colorado.....	2,105	2,090	325	273	335	306	144	127	830	158	74
37 New Mexico.....	10,651	9,829	4,665	4,015	481	357	302	370	1,846	994	499
38 Arizona.....	1	...	2	...	1	1	7	9	12	1	...
39 Utah.....	538	243	47	40	30	82	28	22	370	250	14
40 Nevada.....	2	2	...	...	1	1	...	...	...	...	...
41 Pacific, total.....	34,671	35,350	595	570	6,580	5,228	164	171	1,412	913	41
42 Washington.....	1	1	...	...	...	...	...	...	6	...	...
43 Oregon.....	...	...	...	...	...	...	...	...	5	...	...
44 California.....	34,670	35,349	595	570	6,580	5,228	164	171	1,401	913	41
45 Alaska.....	2	...	...	...	...	1	...	...	5	1	...

<sup>1</sup>Includes wells which the respondent contracted in 1958 to operate and wells for which such a contract was terminated.<sup>2</sup>Excludes dry holes.



and Used for Service in the Crude Petroleum and Natural Gas and Oil and Gas Field  
and States and for Alaska: 1958

Drilled and completed in 1958--Continued		Recompleted in 1958			Purchased, sold, or leased in 1958 <sup>1</sup>				Converted to service wells in 1958		Abandoned in 1958 <sup>2</sup>		Wells being used for services December 1958	
Dry holes <sup>3</sup>	Service wells <sup>3</sup>	Total <sup>4</sup>	Oil wells <sup>3</sup>	Gas wells <sup>3</sup>	Purchased or leased from others		Sold or leased to others		Oil wells <sup>3</sup>	Gas wells <sup>3</sup>	Oil wells <sup>3</sup>	Gas wells <sup>3</sup>		
					Oil wells <sup>3</sup>	Gas wells <sup>3</sup>	Oil wells <sup>3</sup>	Gas wells <sup>3</sup>						
16,351	2,323	5,100	4,211	697	11,697	886	12,176	874	2,682	171	7,806	976	65,129	1
117	165	93	46	47	676	56	941	161	67	96	2,196	136	23,439	2
31	61	13	13	...	143	...	25	...	51	...	1,202	9	8,236	3
86	104	80	33	47	533	56	916	161	16	96	994	127	15,203	4
1,897	424	269	253	16	1,246	23	1,176	75	341	29	771	151	7,929	5
227	15	24	11	13	175	22	373	58	10	29	233	148	454	6
519	51	51	51	...	62	...	82	...	25	...	45	...	547	7
937	324	177	177	...	772	1	554	...	292	...	448	1	6,792	8
214	34	17	14	3	237	...	167	17	14	...	45	2	136	9
2,398	261	437	377	16	1,476	8	1,881	12	230	8	880	55	6,240	10
8	...	...	...	...	...	...	...	...	...	...	...	...	...	11
162	5	18	18	...	69	...	59	...	...	...	8	...	7	12
11	...	...	...	...	...	...	...	...	...	...	...	...	...	13
482	8	23	22	...	36	...	28	...	29	...	30	3	80	14
1,735	248	396	337	16	1,371	8	1,794	12	201	8	842	52	6,153	15
130	...	34	8	24	74	97	26	150	...	4	135	85	601	16
...	...	2	...	2	...	...	...	...	...	...	...	3	...	17
1	...	1	...	1	...	...	...	...	...	...	...	12	...	18
121	...	31	8	21	74	97	26	150	...	4	135	70	601	19
1	...	...	...	...	...	...	...	...	...	...	...	...	...	20
7	...	...	...	...	...	...	...	...	...	...	...	...	...	21
777	349	213	186	27	265	9	812	25	115	2	248	33	2,790	22
514	344	182	164	18	245	8	780	22	110	...	207	21	2,663	23
18	...	...	...	...	...	...	...	...	...	...	1	...	...	24
30	...	...	...	...	...	...	...	...	...	...	2	...	...	25
215	5	31	22	9	20	1	32	3	5	2	38	12	125	26
9,074	1,073	3,439	2,804	501	7,225	511	6,502	341	1,678	32	3,267	470	22,502	27
296	5	44	43	1	58	5	95	4	12	...	33	...	221	28
1,205	12	601	443	152	280	33	266	33	29	7	322	133	724	29
1,987	592	464	397	19	2,603	51	2,178	51	457	5	862	72	11,517	30
5,586	464	2,330	1,921	329	4,284	422	3,963	253	1,180	20	2,050	265	10,040	31
1,538	13	281	232	39	494	173	542	94	215	...	160	30	880	32
161	1	7	6	1	32	3	89	16	5	...	24	3	77	33
1	...	...	...	...	...	...	...	...	...	...	...	...	...	34
316	4	138	123	12	119	1	185	9	56	...	46	4	466	35
592	6	32	30	...	97	15	85	9	81	...	45	11	83	36
351	2	104	73	26	243	154	182	60	71	...	38	11	252	37
11	...	...	...	...	...	...	...	...	...	...	...	...	...	38
106	...	...	...	...	3	...	1	...	2	...	7	1	2	39
...	...	...	...	...	...	...	...	...	...	...	...	...	...	40
420	38	334	305	27	241	9	296	16	36	...	149	16	748	41
6	...	...	...	...	...	...	...	...	...	...	...	...	...	42
5	...	...	...	...	...	...	...	...	...	...	...	...	...	43
409	38	334	305	27	241	9	296	16	36	...	149	16	748	44
4	...	...	...	...	...	...	...	...	...	...	...	...	...	45

<sup>3</sup>For classification of wells, see table 6D, footnotes 9 and 10.

<sup>4</sup>In addition to oil and gas wells, includes service wells recompleted.

Table 7.—Gas Purchased for Gas Lift and Repressuring in the Crude Petroleum and Natural Gas Industry,  
by Divisions and States: 1958 and 1954

(For the quantity and total cost of purchased fuels and electricity used, and the total quantity of crude petroleum and natural gas produced and used for fuel, see tables 3A and 3B)

Region and State	1958		1954	
	Quantity million cu. ft.	Cost (\$1,000)	Quantity million cu. ft.	Cost (\$1,000)
United States, total.....	71,447	8,078	122,958	10,261
Middle Atlantic.....	673	186	371	165
East North Central.....	1,705	179	205	25
West North Central.....	1,012	101	402	92
South Atlantic.....	41	9	100	22
East South Central.....	6,075	1,358	6,514	589
Mississippi.....	6,007	1,347	6,317	570
West South Central.....	55,199	5,417	112,829	9,110
Arkansas.....	4,821	929	7,204	1,010
Louisiana.....	6,890	738	10,118	656
Texas.....	37,439	3,314	92,602	7,013
Mountain.....	4,291	423	1,692	106
Pacific.....	2,451	405	845	152

Table 8.—General Statistics for Establishments Classified by Output per Man-hour: 1958

(Not applicable for this industry.)



Table 9 -General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, for the United States: 1958

Ind. code	Industry and ratio of payroll to value added in mining <sup>1</sup>	Number of establishments	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1311	CRUDE PETROLEUM AND NATURAL GAS, TOTAL.....	11,993	180,040	1,042,186	102,445	200,930	497,571	7,339,922	8,385,906	1,943,493
	Less than 0.10.....	2,113	52,354	314,288	33,263	66,810	182,187	4,732,560	5,064,425	1,037,798
	0.10-0.19.....	2,218	45,802	260,628	29,645	57,970	148,797	1,902,135	2,205,305	521,559
	0.20-0.29.....	1,274	19,118	100,421	13,518	26,713	62,195	416,989	527,692	142,863
	0.30-0.39.....	810	12,717	62,415	8,255	16,007	34,231	178,863	221,916	69,517
	0.40-0.49.....	441	4,289	19,899	3,250	6,392	13,264	44,059	71,933	15,477
	0.50-0.59.....	545	4,515	21,633	2,496	4,579	8,840	39,854	51,258	24,007
	0.60-0.69.....	271	1,889	7,522	1,493	2,819	5,290	11,505	19,728	4,302
	0.70-0.79.....	129	1,551	7,293	1,143	2,090	4,583	9,688	15,560	5,103
	0.80-0.89.....	119	2,122	9,752	1,480	3,249	6,639	11,366	19,651	9,385
	0.90-0.99.....	43	764	4,203	546	1,143	2,616	4,333	7,883	4,133
	1.00 and over.....	1,156	5,680	28,240	3,582	6,298	13,632	14,212	45,517	21,797
	Undistributed <sup>2</sup> .....	2,874	29,239	205,892	3,774	6,860	15,297	( <sup>3</sup> )	135,038	87,552
	Crude petroleum subindustry, total.....	10,603	164,723	965,858	92,358	181,246	452,947	6,823,328	7,809,898	1,707,233
	Less than 0.10.....	1,902	49,776	300,112	31,543	63,343	173,349	4,440,160	4,761,384	950,004
	0.10-0.19.....	2,063	43,047	246,023	27,967	54,661	141,147	1,794,310	2,087,734	486,839
	0.20-0.29.....	1,150	15,880	82,867	11,303	22,089	51,178	345,430	442,497	86,221
	0.30-0.39.....	716	10,234	51,744	6,501	12,692	27,137	147,224	186,815	42,662
	0.40-0.49.....	396	3,680	16,976	2,763	5,384	11,089	37,498	63,396	12,712
	0.50-0.59.....	476	4,183	20,136	2,272	4,190	8,144	37,161	48,649	17,895
	0.60-0.69.....	230	1,548	6,521	1,213	2,293	4,555	9,983	18,173	3,655
	0.70-0.79.....	116	1,089	5,021	800	1,430	2,966	6,630	12,193	3,065
	0.80-0.89.....	102	1,751	8,131	1,362	3,011	6,120	9,487	17,569	6,679
	0.90-0.99.....	39	696	3,869	486	1,043	2,330	3,981	7,456	3,632
	1.00 and over.....	911	4,962	25,921	3,044	5,465	12,185	13,164	43,817	20,833
	Undistributed <sup>2</sup> .....	2,502	27,877	198,537	3,104	5,645	12,747	( <sup>3</sup> )	120,215	73,036
	Natural gas subindustry, total.....	1,390	15,317	76,328	10,087	19,684	44,624	516,594	576,008	236,260
	Less than 0.10.....	211	2,578	14,176	1,720	3,467	8,838	292,400	303,041	87,794
	0.10-0.19.....	155	2,755	14,605	1,678	3,309	7,650	107,825	117,571	34,720
	0.20-0.29.....	124	3,238	17,554	2,215	4,624	11,017	71,559	85,195	56,642
	0.30-0.39.....	94	2,483	10,671	1,754	3,315	7,094	31,639	35,101	26,855
	0.40-0.49.....	45	609	2,923	487	1,008	2,175	6,561	6,537	2,765
	0.50-0.59.....	69	332	1,497	224	389	696	2,693	2,609	6,112
	0.60-0.69.....	41	341	1,001	280	526	735	1,522	1,555	647
	0.70-0.79.....	13	462	2,272	343	660	1,617	3,058	3,367	2,038
	0.80-0.89.....	17	371	1,621	118	238	519	1,879	2,082	2,706
	0.90-0.99.....	4	68	334	60	100	286	352	427	501
	1.00 and over.....	245	718	2,319	538	833	1,447	1,048	1,700	964
	Undistributed <sup>2</sup> .....	372	1,362	7,355	670	1,215	2,550	( <sup>3</sup> )	14,823	14,516

<sup>1</sup>Note that in computing these ratios contract employment serving the establishment is excluded. The cost of contract work in 1958 amounted to 139 percent of payroll for the Crude Petroleum and Natural Gas Industry, to 137 percent for the Crude petroleum subindustry, and to 176 percent for the Natural gas subindustry.

<sup>2</sup>Represents establishments with zero or negative value added; establishments with no employees; and for number of employees and payroll, includes figures for separately reported central offices and related facilities.

<sup>3</sup>Not shown since cost of supplies, purchased fuels and electricity, contract work, and purchased machinery exceeds value of shipments and receipts plus capital expenditures.

Table 10.-Value Added per Employee by Size of Establishment for the United States: 1958

Ind. code	Industry and value added per employee class <sup>1</sup>	Number of--		Number of establishments with average employment of--						
		Establish- ments	Employees	0-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1311	CRUDE PETROLEUM AND NATURAL GAS, TOTAL.....	11,993	180,040	10,901	638	234	133	45	23	19
	Less than \$3,000.....	1,689	6,340	1,643	33	10	2	1	...	...
	\$3,000-\$3,999.....	438	1,688	425	11	2	...	...	...	...
	\$4,000-\$4,999.....	389	2,581	365	17	5	1	1	...	...
	\$5,000-\$5,999.....	352	3,093	326	16	5	3	1	1	...
	\$6,000-\$6,999.....	360	1,961	339	15	5	1	...	...	...
	\$7,000-\$7,999.....	305	2,631	281	14	6	3	1	...	...
	\$8,000-\$8,999.....	283	1,771	264	15	3	1	...	...	...
	\$9,000-\$9,999.....	249	1,672	229	17	2	1	...	...	...
	\$10,000-\$12,499.....	569	6,652	514	38	10	4	1	1	1
	\$12,500-\$14,999.....	454	6,110	396	39	10	5	3	1	...
	\$15,000-\$17,499.....	421	5,785	364	44	8	3	1	...	1
	\$17,500-\$19,999.....	339	4,789	288	36	6	7	2	...	...
	\$20,000 and over.....	3,586	107,190	2,953	309	153	101	33	20	17
	Negative value added.....	789	4,734	744	34	9	1	1	...	...
	No employees.....	1,770	...	1,770	...	...	...	...	...	...
	Central offices and related facilities.....	...	23,043	...	...	...	...	...	...	...
	Crude petroleum subindustry, total.....	10,603	164,723	9,629	580	202	117	36	21	18
	Less than \$3,000.....	1,323	5,184	1,286	25	9	2	1	...	...
	\$3,000-\$3,999.....	375	1,459	364	9	2	...	...	...	...
	\$4,000-\$4,999.....	334	2,354	312	16	4	1	1	...	...
	\$5,000-\$5,999.....	307	2,481	285	14	5	2	...	1	...
	\$6,000-\$6,999.....	332	1,892	311	15	5	1	...	...	...
	\$7,000-\$7,999.....	281	2,120	260	13	5	3	...	...	...
	\$8,000-\$8,999.....	254	1,672	236	14	3	1	...	...	...
	\$9,000-\$9,999.....	234	1,570	216	15	2	1	...	...	...
	\$10,000-\$12,499.....	517	5,476	473	32	8	2	...	1	1
	\$12,500-\$14,999.....	423	4,715	376	34	7	4	2	...	...
	\$15,000-\$17,499.....	391	5,238	338	42	7	3	...	...	1
	\$17,500-\$19,999.....	314	4,244	268	34	5	5	2	...	...
	\$20,000 and over.....	3,281	99,605	2,709	285	131	91	30	19	16
	Negative value added.....	707	4,124	665	32	9	1	...	...	...
	No employees.....	1,530	...	1,530	...	...	...	...	...	...
	Central offices and related facilities.....	...	22,589	...	...	...	...	...	...	...
	Natural gas subindustry, total.....	1,390	15,317	1,272	58	32	16	9	2	1
	Less than \$3,000.....	366	1,156	357	8	1	...	...	...	...
	\$3,000-\$3,999.....	63	229	61	2	...	...	...	...	...
	\$4,000-\$4,999.....	55	227	53	1	1	...	...	...	...
	\$5,000-\$5,999.....	45	612	41	2	...	1	1	...	...
	\$6,000-\$6,999.....	28	69	28	...	...	...	...	...	...
	\$7,000-\$7,999.....	24	511	21	1	1	...	1	...	...
	\$8,000-\$8,999.....	29	99	28	1	...	...	...	...	...
	\$9,000-\$9,999.....	15	102	13	2	...	...	...	...	...
	\$10,000-\$12,499.....	52	1,176	41	6	2	2	1	...	...
	\$12,500-\$14,999.....	31	1,395	20	5	3	1	1	1	...
	\$15,000-\$17,499.....	30	547	26	2	1	...	1	...	...
	\$17,500-\$19,999.....	25	545	20	2	1	2	...	...	...
	\$20,000 and over.....	305	7,585	244	24	22	10	3	1	1
	Negative value added.....	82	610	79	2	...	...	1	...	...
	No employees.....	240	...	240	...	...	...	...	...	...
	Central offices and related facilities.....	...	454	...	...	...	...	...	...	...

<sup>1</sup>See table 9, footnote 1.



Table 11.—Hourly Earnings of Production and Development Workers for Establishments with 10 or More Employees, by Divisions: 1958

Ind. code	Industry by hourly earnings classes	Number of--		Number of establishments with 10 or more employees in--								
		Estab- lish- ments	Em- ployees	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
1311	CRUDE PETROLEUM AND NATURAL GAS, TOTAL.....	2,049	135,898	...	64	191	208	52	95	1,118	213	108
	Less than \$1.49.....	263	5,520	...	6	36	31	11	17	154	8	...
	\$1.50-\$1.99.....	506	14,355	...	20	59	69	20	24	293	16	5
	\$2.00-\$2.49.....	544	26,661	...	28	43	50	17	22	317	48	19
	\$2.50-\$2.99.....	419	45,119	...	7	37	37	1	17	209	67	44
	\$3.00-\$3.49.....	194	37,025	...	...	13	16	1	8	93	31	32
	\$3.50 and over.....	69	5,823	...	...	2	4	...	6	34	17	6
	No production or development workers.....	54	1,395	...	3	1	1	2	1	18	26	2
	Crude petroleum subindustry, total.....	1,843	123,261	...	34	184	200	16	86	1,031	190	102
	Less than \$1.49.....	247	5,109	...	5	36	31	3	16	148	8	...
	\$1.50-\$1.99.....	463	13,007	...	12	57	68	4	21	281	15	5
	\$2.00-\$2.49.....	484	20,357	...	15	41	47	6	20	295	41	19
	\$2.50-\$2.99.....	372	42,651	...	...	35	33	1	14	185	62	42
	\$3.00-\$3.49.....	175	35,398	...	...	12	16	1	8	84	25	29
	\$3.50 and over.....	61	5,559	...	...	2	4	...	6	28	16	5
	No production or development workers.....	41	1,180	...	2	1	1	1	1	10	23	2
	Natural gas subindustry, total	206	12,637	...	29	8	8	36	9	87	23	6
	Less than \$1.49.....	16	411	...	1	...	...	8	1	6	...	...
	\$1.50-\$1.99.....	43	1,348	...	7	3	1	16	3	12	1	...
	\$2.00-\$2.49.....	60	6,304	...	13	2	3	11	2	22	7	...
	\$2.50-\$2.99.....	47	2,468	...	7	2	4	...	3	24	5	2
	\$3.00-\$3.49.....	19	1,627	...	...	1	...	...	...	9	6	3
	\$3.50 and over.....	8	264	...	...	...	...	...	...	6	1	1
	No production or development workers.....	13	215	...	1	...	...	1	...	8	3	...

Table 12A.—Distribution of Operating Companies by Employment Size and by Number of Establishments for the United States: 1958

Subindustry by establishment count	Number of--			Number of establishments with average employment of--								
	Operating companies	Estab-lishments	Em-ployees <sup>1</sup>	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
Crude petroleum subindustry, total.....	8,764	10,603	142,134	7,517	1,243	869	580	202	117	36	21	18
Multiunit companies, total.....	1,267	3,106	110,351	1,646	429	374	307	164	112	35	21	18
1 establishment <sup>2</sup> .....	454	454	6,608	243	69	61	42	30	9	...	...	...
2 establishments.....	492	984	7,088	629	141	122	71	19	2	...	...	...
3 or 4 establishments....	206	675	10,463	388	98	71	72	25	16	3	2	...
5 or 6 establishments....	59	316	6,093	173	49	38	30	19	4	2	...	1
7 to 9 establishments....	30	232	6,812	109	35	31	24	17	12	3	1	...
10 to 14 establishments..	11	140	12,055	31	19	15	25	21	16	10	1	2
15 to 19 establishments..	9	153	28,394	31	9	21	23	18	28	6	10	7
20 or more establishments	6	152	32,838	42	9	15	20	15	25	11	7	8
Single unit companies....	7,497	7,497	31,783	5,871	814	495	273	38	5	1	...	...
Natural gas subindustry, total.....	1,241	1,390	14,863	1,058	126	88	58	32	16	9	2	1
Multiunit companies, total.....	250	399	11,919	197	49	56	40	31	14	9	2	1
1 establishment <sup>2</sup> .....	166	166	2,332	94	25	23	11	9	3	1	...	...
2 establishments.....	55	109	3,009	54	13	16	11	8	3	4	...	...
3 or 4 establishments....	22	73	2,940	36	6	10	11	4	3	1	2	...
5 or 6 establishments....	4	23	994	5	3	3	4	4	4	...	...	...
7 to 9 establishments....	1	7	...	1	...	2	1	3	...	...	...	...
10 to 14 establishments..	2	21	2,644	7	2	2	2	3	1	3	...	1
Single unit companies....	991	991	2,944	861	77	32	18	1	2	...	...	...

<sup>1</sup>Excludes figures for separately reported central offices and related facilities.<sup>2</sup>Represents companies having at least one establishment classified in other industries.

Table 12B.—Distribution of Operating Companies in the Crude Petroleum and Natural Gas Industry by Type of Operation and Rank by Size of Operations: 1958 and 1954

(This table carries forward to 1958 a tabulation similar to tabulations included in the 1954 Census of Mineral Industries at the request of other government agencies and business groups)

Item	1958				1954		
	Operating companies, number	Establishments, number	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)	Operating companies, number	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
All companies, total.....	9,835	11,993	8,385,906	1,943,493	9,720	7,070,097	1,898,454
Producing companies ranked by value of shipments and receipts:							
Companies operating and drilling wells, total.....	3,533	5,402	7,978,219	1,926,319	4,347	6,830,390	1,888,691
First 4 companies.....	4	117	2,018,576	517,448	4	(NA)	399,140
First 8 companies.....	8	193	3,419,131	820,396	8	2,654,348	707,640
First 20 companies.....	20	384	5,074,802	1,141,502	20	4,097,044	1,019,043
First 50 companies.....	50	624	6,035,300	1,408,490	50	4,967,984	1,223,857
First 100 companies.....	100	864	6,526,648	1,542,633	100	5,441,291	1,361,273
First 1,000 companies.....	1,000	2,494	7,713,423	1,835,733	1,000	6,532,905	1,704,028
Companies operating wells only, total.....	5,839	6,114	4,07,687	11,743	4,914	239,707	6,074
First 4 companies.....	4	5	25,079	257	4	26,615	339
First 8 companies.....	8	15	38,411	688	8	33,998	469
First 20 companies.....	20	34	60,312	845	20	47,074	794
First 50 companies.....	50	78	90,553	1,402	50	66,545	973
First 100 companies.....	100	144	125,973	2,156	100	86,959	1,368
First 1,000 companies.....	1,000	1,156	317,739	8,247	1,000	192,047	4,359
Nonproducing companies.....	463	477	...	5,431	459	...	3,689

NA Not available.



## Natural Gas Liquids

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Industry 1321, Natural Gas Liquids. This industry represents establishments primarily engaged in producing liquid hydrocarbons from oil and gas field gases. Establishments recovering liquefied petroleum gases incident to petroleum refining or to the manufacturing of chemicals are classified in Major Groups 28 or 29.

Figures are also shown in tables 1, 2, 3B and 4 of this report for the two subindustries, "Natural Gasoline" and "Cycle Condensate." The natural gasoline subindustry represents establishments primarily engaged in producing natural gasoline and liquefied petroleum gases from natural gas. The cycle condensate subindustry represents establishments primarily engaged in producing cycle condensate and derived liquids at establishments cycling the natural gas back into the ground. For Census purposes, distinction between the two subindustries was based on the respondent's reply to a check-box inquiry asking for type of plant as either "natural gasoline plant" or "cycle condensate plant." In general, plants were excluded from the Natural Gas Liquids Industry if the ratio of barrels of natural gas liquids recovered to million cubic feet of gas processed was less than 6.

This report does not include the recovery of natural gas liquids as a secondary activity in dehydration, pressure maintenance, and boosting plants. Insofar as such operations are associated with natural gas transmissions lines, they are not within the scope of the 1958 economic censuses (manufactures, mineral industries, and business). However, the production of field condensate and drips from wellhead fittings in the oil and gas fields is included in the 1958 Census of Mineral Industries report, "Crude Petroleum and Natural Gas." Also excluded from this report is the production of liquefied gases from petroleum refinery gases. Such production is included in the 1958 Census of Manufactures report, "Petroleum Refining and Related Industries." The shipments of these related products as covered in the 1958 censuses are summarized in the following table:

SHIPMENTS OF NATURAL GAS LIQUIDS AND RELATED PRODUCTS  
COVERED IN THE 1958 ECONOMIC CENSUSES

Industry and product	Shipments in 1958	
	Quantity (1,000 barrels)	Value (\$1,000)
Natural gas liquids industry:		
Net natural gas liquids.....	294,887	699,328
Crude petroleum and natural gas and oil and gas field services industries:		
Field condensate and drips..	48,647	148,036
Petroleum refining and other manufacturing industries:		
Net liquefied petroleum gases.....	83,814	<sup>1</sup> 442,076

<sup>1</sup>Estimated on the basis of the unit value for gross shipments of such products.

Census statistics are not available to indicate the production of natural gas liquids in transmission line operations.

For each subindustry, statistics are shown in tables 2 and 3B for establishments classified by method of recovery of natural gas liquids, separate figures being shown for four methods of recovery: "absorption," "compression," "refrigeration and other," and "combination." This classification was also based on a check-box inquiry in the report form.

The total value of shipments and receipts of the Natural Gas Liquids Industry in 1958 amounted to \$1,625 million. Of this total, the value of net shipments of natural gas liquids amounted to \$699 million, the value of residue gas shipped to \$776 million, the approximate value of natural gas liquids transferred for further processing to \$142 million, and the value of other products and services to \$8 million. The Natural Gasoline Subindustry accounted for \$1,418 million of the total value of shipments and receipts and the Cycle Condensate Subindustry for \$207 million.

The cost of natural gas liquids received for processing and the value of residue gas shipped had not been collected in previous Censuses of Mineral Industries, primarily because a large portion of the gas is transferred from other operations of the same company or processed on a contract basis for others. The collection of such cost and value figures in the 1958 census made it possible to compute value added in mining for the Natural Gas Liquids Industry and to include this measure for the first time in the report on natural gas liquids.

The value of net shipments of natural gas liquids shown in several places in this report, amounting to \$699 million was obtained by subtracting from the value of gross shipments of natural gas liquids, \$841 million, the value of natural gas liquids received for further processing, \$142 million. Similarly, quantity of net production and net shipments was obtained by subtraction of quantity receipts from the gross quantity of production or shipments. These net figures avoid the duplication in gross production and shipments figures resulting from transfers of liquids from other plants in the same industry to associated plants or to a central fractionator.

The general statistics (employment, payrolls, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the production of secondary products, and in the performance of contract work for others. This fact should be taken into account in comparing industry and subindustry statistics (tables 1-4 and 7-12) with product statistics (table 6) showing shipments by all industries and subindustries of the primary products of the specified industry. The extent of the "product mix" is indicated in tables 3A, 3B, and 5 which show the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of net shipments of natural gas liquids.

The Bureau of the Census statistics on primary products of the Natural Gas Liquids Industry are, in general, comparable with product statistics for the same commodities published by the Bureau of Mines. The differences which occur result primarily from differences in data collection methods, coverage, and objectives sought. The most nearly comparable statistics from the two bureaus are shown in the table below. Major reasons for the differences in product statistics are:

(1) The Bureau of Mines includes statistics for some liquids recovered incident to the operation of gathering and transmission lines. Such liquids are not classified as natural gas liquids in Census reports.

(2) Although a separate report was requested by the Census Bureau for each natural gas liquids plant, in reporting

unitized operations some flexibility was permitted. If it was particularly difficult for the operator to prepare separate reports for each plant, a consolidated report was accepted, provided it did not include operations in more than one county. The acceptance of such consolidated reports explains some of the differences between the counts of number of establishments as shown in Census and Mines reports.

(3) The Bureau of the Census excludes small establishments for which the value of products and reported costs were below \$500. The Bureau of Mines includes all reports regardless of size. However, there is probably no difference between Census and Bureau of Mines figures for 1958 on account of this difference.

QUANTITY AND VALUE OF NATURAL GAS LIQUIDS AND GAS PROCESSED AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU OF MINES FOR THE UNITED STATES: 1958

Product	Unit of measure	Bureau of the Census statistics			Bureau of Mines statistics		
		Production (Quantity)	Shipments (including interplant transfers) or receipts		Production (Quantity)	Shipments or receipts	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
Net natural gas liquids production and shipments.....	1,000 barrels	294,192	294,887	699,328	294,749	292,128	<sup>1</sup> 689,710
Natural gas received for processing.....	Million cu.ft.	xxx	8,552,799	850,356	xxx	8,452,544	(NA)
Residue gas:							
Shipped.....	.....do.....	xxx	7,664,890	776,153	xxx	(NA)	(NA)
Used for fuel at plant.....	.....do.....	426,920	xxx	xxx	(NA)	xxx	xxx

<sup>1</sup>Represents value of production.

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol I)

Industry code, industry, and year	Operating companies, number	Establishments, number		All employees		Production and related workers			Value added in mining (\$1,000)	Selected expenses (\$1,000)				Value of shipments and receipts (\$1,000)	Value of net shipments and receipts <sup>1</sup> (\$1,000)	Quantity of net production of natural gas liquids <sup>2</sup> (1,000 barrels)	Capital expenditures (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		Supplies, purchased fuels and electricity, and contract work	Natural gas received for processing	Natural gas liquids received for further processing	Purchased machinery installed				
1321—NATURAL GAS LIQUIDS:																	
1958, total	176	593	290	16,514	96,319	13,445	26,947	75,739	587,580	100,226	850,356	142,030	39,836	1,625,098	706,915	294,887	94,930
Subindustry																	
Natural gasoline.....	163	547	254	14,360	83,259	11,758	23,537	65,793	508,553	91,039	736,042	130,894	37,297	1,418,295	585,764	252,128	85,530
Cycle condensate.....	31	46	36	2,154	13,060	1,687	3,410	9,946	79,027	9,187	114,314	11,136	2,539	206,803	121,151	42,759	9,400
1954, total	181	562	287	17,340	85,057	13,560	27,862	63,983	(NA)	85,771	(NA)	57,556	65,752	(NA)	582,866	255,450	109,959
Subindustry																	
Natural gasoline.....	167	521	(NA)	15,045	73,359	11,740	24,119	55,114	(NA)	77,091	(NA)	57,556	60,913	(NA)	450,099	207,370	102,277
Cycle condensate.....	30	41	(NA)	2,295	11,698	1,820	3,743	8,869	(NA)	8,680	(NA)	...	4,839	(NA)	132,767	48,080	7,682
1939.....	295	<sup>3</sup> 736	(NA)	10,337	18,264	8,332	16,634	13,212	(NA)	19,592	(NA)	(NA)	(NA)	(NA)	96,338	60,825	(NA)

NA Not available.

<sup>1</sup>Represents value of gross shipments and receipts less value of residue gas shipped and less cost of natural gas liquids received for further processing.

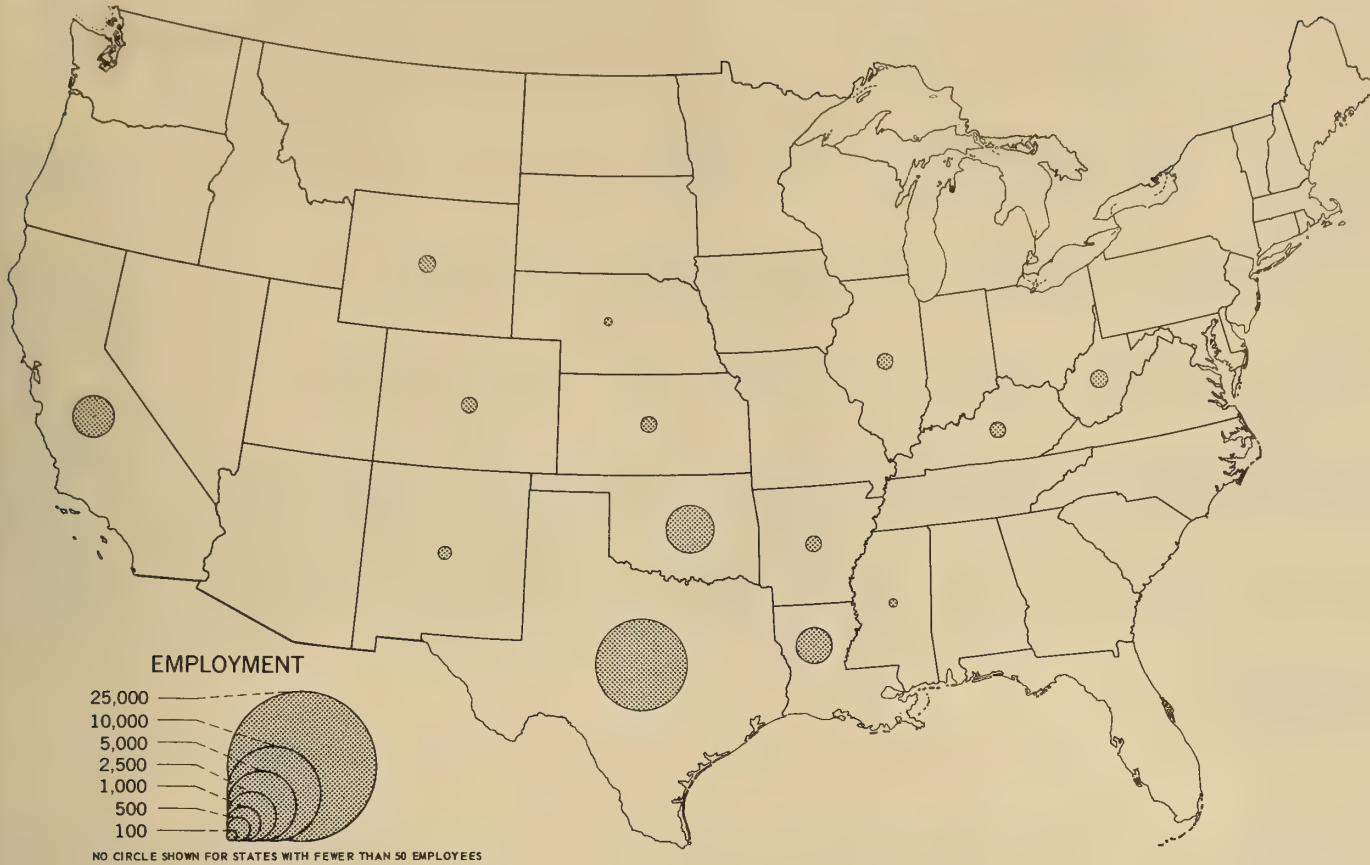
<sup>2</sup>Represents gross production less natural gas liquids received for further processing.

<sup>3</sup>Represents number of plants.



# NATURAL GAS LIQUIDS

Distribution of Employment by State:1958



## Employment and Production:1840-1958

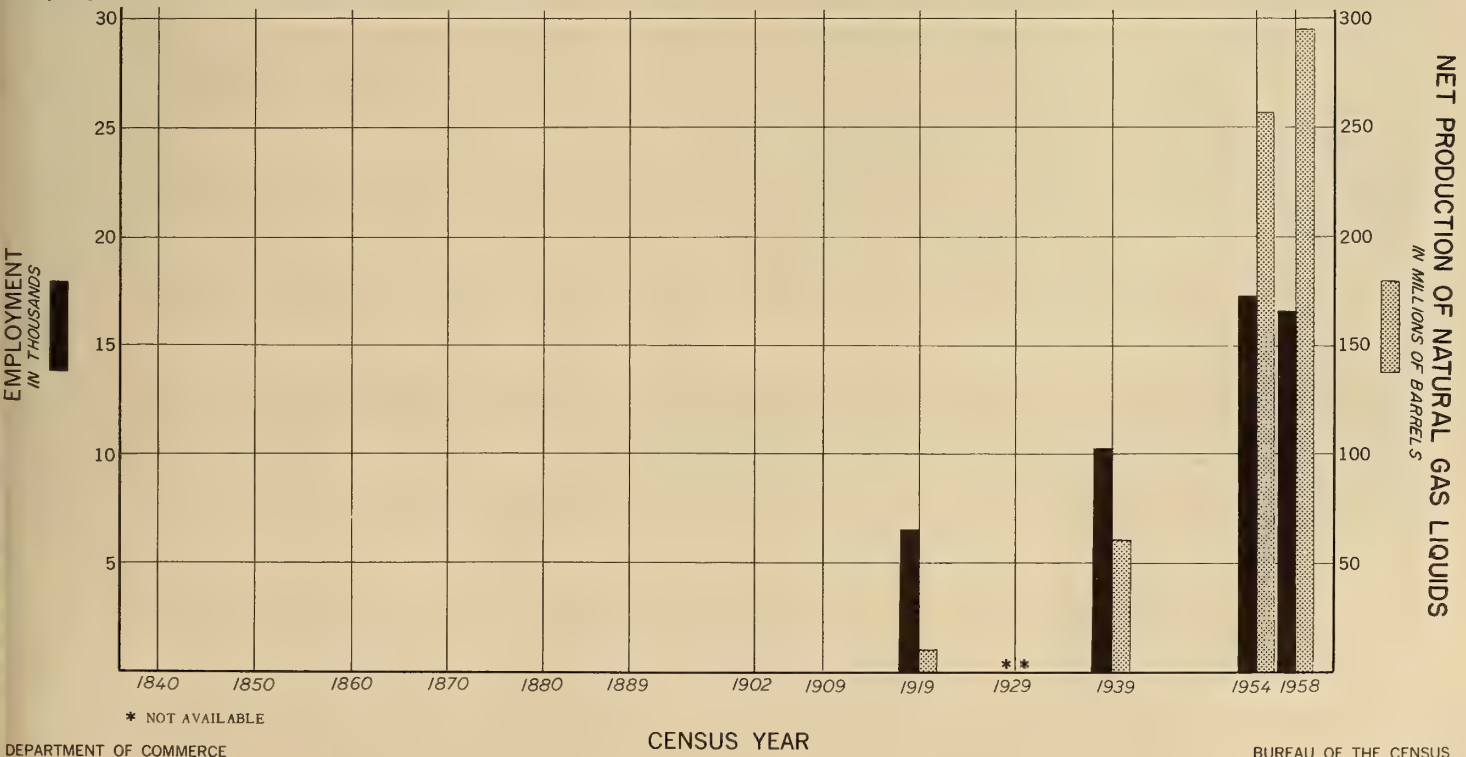


Table 2.-General Statistics by Regions, States, and Type of Operation: 1958 and 1954

Industry code, industry, region, State, and type of operation <sup>1</sup>	1958											1954			
	Establishments, number		All employees		Production and related workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Value of net shipments and receipts <sup>2</sup>	Quantity of natural liquids net shipments <sup>3</sup>	Capital expenditures	All employees, number	Value of net shipments and receipts <sup>2</sup>
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)								
1321—NATURAL GAS LIQUIDS, TOTAL.....	593	290	16,514	96,319	13,445	26,947	75,739	587,580	1,132,448	1,625,098	706,915	294,887	94,930	17,340	582,866
<u>Region and State</u>															
Middle Atlantic (Pennsylvania).....	7	...	17	69	17	33	67	207	1,639	1,700	242	81	146	37	405
North Central.....	30	13	643	3,812	554	1,107	3,201	30,853	133,926	162,821	38,820	16,070	1,958	692	421,906
Kansas.....	15	7	328	1,882	275	549	1,533	11,788	57,460	68,630	10,969	5,177	618	(NA)	(NA)
South Atlantic (West Virginia).....	38	4	343	1,862	323	649	1,731	8,501	28,759	31,895	10,702	6,620	5,365	430	10,512
East South Central.....	11	5	230	1,306	202	400	1,103	9,011	33,473	37,543	12,458	7,312	4,941	236	9,785
Kentucky.....	8	4	173	947	152	307	795	8,023	17,814	21,052	10,291	6,572	4,785	180	7,445
Mississippi.....	3	1	57	359	50	93	308	988	15,659	16,491	2,167	740	156	56	2,340
West South Central.....	387	213	12,275	71,006	9,763	19,649	54,347	440,047	728,473	1,103,100	509,876	213,630	65,420	12,837	4397,718
Arkansas.....	9	3	205	1,242	178	392	1,039	4,114	5,554	8,112	5,390	2,267	1,556	258	45,697
Louisiana.....	55	21	1,208	7,172	1,013	2,062	5,904	56,550	129,695	172,772	71,011	24,747	13,473	1,201	461,263
Oklahoma.....	76	30	2,283	13,183	1,623	3,188	8,807	49,926	63,288	105,808	55,690	28,162	7,406	2,384	439,048
Texas.....	247	159	8,579	49,409	6,949	14,007	38,597	329,457	529,936	816,408	377,785	158,454	42,985	8,994	4291,710
Mountain.....	53	22	1,205	7,151	1,055	2,128	6,247	39,408	92,596	116,952	45,826	22,633	15,052	1,007	425,114
Wyoming.....	12	3	250	1,474	216	429	1,216	3,990	8,272	10,116	6,010	2,522	2,146	297	45,252
New Mexico.....	26	16	771	4,650	684	1,400	4,195	28,851	77,948	95,271	32,490	16,903	11,528	627	417,292
Pacific (California).....	67	33	1,801	11,113	1,531	2,981	9,043	59,553	113,582	171,087	88,991	28,541	2,048	2,101	4111,388
<u>Subindustry, Type of Operation, Region, and State</u>															
United States, total...	593	290	16,514	96,319	13,445	26,947	75,739	587,580	1,132,448	1,625,098	706,915	294,887	94,930	17,340	582,866
<u>Subindustry</u>															
Natural gasoline.....	547	254	14,360	83,259	11,758	23,537	65,793	508,553	995,272	1,418,295	585,764	252,128	85,530	15,045	450,099
Absorption.....	403	210	10,420	59,694	9,094	18,206	50,821	358,753	671,399	971,693	414,465	189,782	58,459	12,462	46458,914
Compression.....	61	3	448	2,590	414	839	2,268	16,877	88,192	100,916	30,722	14,718	4,153	5793	4624,779
Refrigeration and other.....	23	7	1,463	9,016	504	976	2,755	39,281	144,633	169,153	47,249	5,163	14,761	52,390	4693,135
Combination.....	60	34	2,029	11,959	1,746	3,516	9,949	93,642	91,078	176,533	93,328	42,465	8,157		
Cycle condensate.....	46	36	2,154	13,060	1,687	3,410	9,946	79,027	137,176	206,803	121,151	42,759	9,400	2,295	132,767
Absorption.....	37	31	1,841	11,126	1,446	2,892	8,499	62,971	115,363	173,952	101,923	37,682	4,382	(6)	(6)
Compression and other.....	9	5	313	1,934	241	518	1,447	16,056	21,813	32,851	19,228	5,077	5,018	(6)	(6)
West South Central, total..	387	213	12,275	71,006	9,763	19,649	54,347	440,047	728,473	1,103,100	509,876	213,630	65,420	12,837	4397,718
<u>Subindustry</u>															
Natural gasoline.....	345	180	10,283	58,792	8,202	16,484	45,186	364,782	603,115	911,858	396,497	172,708	56,055	10,716	4283,012
Absorption.....	273	150	8,185	46,678	6,433	12,956	35,418	258,551	406,265	624,230	282,739	137,100	40,586	(NA)	(NA)
Compression.....	18	...	179	1,228	97	198	483	3,119	3,657	5,512	3,375	1,519	1,264	(NA)	(NA)
Refrigeration, other, and combination.....	54	30	1,919	10,886	1,672	3,330	9,285	103,112	193,193	282,116	110,383	34,089	14,205	(NA)	(NA)
Cycle condensate.....	42	33	1,992	12,214	1,561	3,165	9,161	75,265	125,358	191,242	113,379	40,922	9,365	2,121	4114,706
Louisiana, total.....	55	21	1,208	7,172	1,013	2,062	5,904	56,550	129,695	172,772	71,011	24,747	13,473	1,201	461,263
<u>Subindustry</u>															
Natural gasoline.....	42	13	711	4,048	612	1,265	3,406	27,471	85,109	104,285	30,350	11,882	8,295	(NA)	(NA)
Absorption.....	34	9	576	3,298	501	1,043	2,783	23,671	83,380	99,658	27,209	10,680	7,393	(NA)	(NA)
Compression and combination.....	8	4	135	750	111	222	623	3,800	1,729	4,627	3,141	1,202	902	(NA)	(NA)
Cycle condensate.....	13	8	497	3,124	401	797	2,498	29,079	44,586	68,487	40,661	12,865	5,178	(NA)	(NA)

See footnotes at end of table.



Table 2.—General Statistics by Regions, States, and Type of Operation: 1958 and 1954—Continued

Industry code, industry, region, State, and type of operation <sup>1</sup>	1958													1954	
	Establishments, number		All employees		Production and related workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Value of net shipments and receipts <sup>2</sup>	Quantity of natural gas liquids net shipments <sup>3</sup>	Capital expenditures	All employees, number	Value of net shipments and receipts <sup>2</sup>
	Total	With 20 or more employees	Number	Payroll	Number	Man-hours	Wages								
				(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(1,000 barrels)	(\$1,000)		(\$1,000)
West South Central—Con. Texas, total.....	247	159	8,579	49,409	6,949	14,007	38,597	329,457	529,936	816,408	377,785	158,454	42,985	8,994	4291,710
Subindustry															
Natural gasoline.....	221	137	7,304	41,923	5,931	11,922	32,806	286,503	453,235	700,806	311,671	133,474	38,932	7,497	4218,249
Absorption.....	168	114	5,745	32,883	4,599	9,236	25,496	197,839	279,295	450,448	215,034	106,646	26,686	(NA)	(NA)
Compression.....	12	...	91	530	67	137	310	2,594	2,996	4,432	2,755	1,159	1,158	(NA)	(NA)
Refrigeration, other, and combination.....	41	23	1,468	8,510	1,265	2,549	7,000	86,070	170,944	245,926	93,882	25,669	11,088	(NA)	(NA)
Cycle condensate.....	26	22	1,275	7,486	1,018	2,085	5,791	42,954	76,701	115,602	66,114	24,980	4,053	1,497	73,461

NA Not available.

<sup>1</sup>General statistics for some States are not shown separately in this table in order to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such States are shown below for 1958, with the number of establishments in each State (and in parentheses the number of employees or employment size range): Ohio, 1 (5-9); Illinois, 5 (190); Michigan, 3 (20-49); North Dakota, 1 (20-49); Nebraska, 5 (50-99); Montana, 2 (20-49); Colorado, 13 (100-249).

<sup>2</sup>Represents value of gross shipments and receipts less value of residue gas shipped and less cost of natural gas liquids received for further processing.

<sup>3</sup>Represents gross shipments less natural gas liquids received for further processing.

<sup>4</sup>Represents value of net shipments of natural gas liquids only.

<sup>5</sup>Excludes figures for separately reported central offices and related facilities. Figures for 5 nonproducing absorption plants and 3 nonproducing compression plants are included with those for combination plants. See also footnote 6.

<sup>6</sup>Figures for the cycle condensate subindustry are included with those for the natural gasoline subindustry.

Table 3A.-Detailed Statistics for the Natural Gas Liquids Industry,

	Item	United States	North Central		South Atlantic (West Virginia)
			Region	Kansas	
1	Number of establishments, total.....	593	30	15	38
2	With 0-19 employees.....	303	17	8	34
3	With 20-99 employees.....	277	13	7	4
4	With 100 employees and over.....	13	...	...	...
5	Natural gas received for processing.....million cu. ft..	8,552,799	617,770	393,258	163,078
6	Net shipments of natural gas liquids.....1,000 barrels..	294,887	16,070	5,177	6,620
7	Value of shipments and receipts, total.....\$1,000..	1,625,098	162,821	68,630	31,895
8	Residue gas shipped.....do...	776,153	123,982	57,661	21,081
9	Natural gas liquids received for processing.....do...	142,030	19	...	112
10	Net shipments and receipts, total.....do...	706,915	38,820	10,969	10,702
11	Natural gas liquids.....do...	699,328	38,531	10,957	10,702
12	Other products and services.....do...	7,587	289	12	...
13	Receipts for contract processing of natural gas <sup>1</sup> .....do...	31,886	(D)	(D)	...
14	Value added in mining.....do...	587,580	30,853	11,788	8,501
15	Number of persons engaged, total.....	16,566	643	328	343
16	Production and related workers, average for year.....	13,445	554	275	323
17	Other employees.....	3,069	89	53	20
18	Proprietors and firm members.....	52	...	...	...
19	Performing manual labor.....	8	...	...	...
20	Man-hours worked by production and related workers.....1,000..	26,947	1,107	549	649
21	Principal expenses designated below, total.....\$1,000..	1,188,931	136,938	59,185	25,578
22	Wages of production and related workers.....do...	75,739	3,201	1,533	1,731
23	Salaries of all other employees.....do...	20,580	611	349	131
24	Supplies.....do...	46,026	2,194	845	803
25	Natural gas received for processing.....do...	850,356	129,806	56,061	22,226
26	Natural gas liquids received for further processing.....do...	142,030	19	...	112
27	Fuels purchased.....do...	4,521	148	108	170
28	Electric energy purchased.....do...	4,696	235	100	127
29	Contract work.....do...	44,983	724	189	278
30	Purchased machinery installed.....do...	39,836	800	157	5,043
31	Capital expenditures.....do...	94,930	1,958	618	5,365
32	Energy used.....million kwh equivalent..	142,130	5,087	2,180	1,251
33	Residue gas.....million cu. ft..	426,920	15,163	6,144	3,898
	Fuels purchased:				
34	Fuel oil.....1,000 barrels..	68	...	...	...
35	Gas.....million cu. ft..	32,815	1,282	875	...
36	Other fuels.....\$1,000..	471	46	46	170
37	Electric energy purchased.....million kwh..	436	15	8	10
38	Electric energy generated and used.....do...	1,059	48	24	13

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Contract processing of natural gas is not included in the total value of shipments and receipts since it would duplicate, in part, the value of the products produced from such processing.

<sup>2</sup>Less than one-half of the unit of measure specified.



## NATURAL GAS LIQUIDS

13C-7

by Selected Regions and States: 1958

East South Central			West South Central					Mountain			Pacific (California)	
Region, total	Kentucky	Missis- sippi	Region, total	Arkansas	Louisiana	Oklahoma	Texas	Region	Wyoming	New Mexico		
11	8	3	387	9	55	76	247	53	12	26	67	1
6	4	2	174	6	34	46	88	31	9	10	34	2
5	4	1	201	3	19	29	150	22	3	16	32	3
...	...	...	12	...	2	1	9	...	...	...	1	4
602,274	438,279	163,995	5,907,262	42,416	983,596	674,996	4,206,254	716,069	57,043	595,327	540,909	5
7,312	6,572	740	213,630	2,267	24,747	28,162	158,454	22,633	2,522	16,903	28,541	6
37,543	21,052	16,491	1,103,100	8,112	172,772	105,808	816,408	116,952	10,116	95,271	171,087	7
24,649	10,325	14,324	462,077	2,707	91,253	43,402	324,715	63,404	4,106	55,059	79,502	8
436	436	...	131,147	15	10,508	6,716	113,908	7,722	...	7,722	2,594	9
12,458	10,291	2,167	509,876	5,390	71,011	55,690	377,785	45,826	6,010	32,490	88,991	10
12,158	10,291	1,867	506,431	5,390	70,580	54,964	375,497	45,386	5,779	32,421	85,878	11
300	...	300	3,445	...	431	726	2,288	440	231	69	3,113	12
(D)	...	(D)	23,555	...	(D)	(D)	19,426	(D)	(D)	...	5,282	13
9,011	8,023	988	440,047	4,114	56,550	49,926	329,457	39,408	3,990	28,851	59,553	14
230	173	57	12,324	209	1,214	2,299	8,602	1,205	250	771	1,804	15
202	152	50	9,763	178	1,013	1,623	6,949	1,055	216	684	1,531	16
28	21	7	2,512	27	195	660	1,630	150	34	87	270	17
...	...	...	49	4	6	16	23	...	...	...	3	18
...	...	...	7	1	1	1	4	...	...	...	1	19
400	307	93	19,649	392	2,062	3,188	14,007	2,128	429	1,400	2,981	20
34,629	18,736	15,893	774,934	6,471	129,906	72,003	566,554	91,631	8,790	75,998	123,636	21
1,103	795	308	54,347	1,039	5,904	8,807	38,597	6,247	1,216	4,195	9,043	22
203	152	51	16,659	r 203	r 1,268	r 4,376	r 10,812	904	258	455	2,070	23
460	337	123	32,538	r 428	r 3,179	r 4,873	r 24,058	6,014	737	4,540	3,968	24
27,594	12,198	15,396	499,828	3,441	102,094	43,822	350,471	65,593	4,950	55,893	103,848	25
436	436	...	131,147	r 15	10,508	6,716	113,908	7,722	...	7,722	2,594	26
68	66	2	3,739	r 32	689	93	2,925	193	1	121	203	27
44	38	6	3,356	91	282	479	2,504	260	71	102	671	28
4,721	4,714	7	33,320	1,222	5,982	2,837	23,279	4,698	1,557	2,970	1,239	29
150	25	125	24,545	325	6,961	4,468	12,791	8,116	956	6,600	1,059	30
4,941	4,785	156	65,420	1,556	13,473	7,406	42,985	15,052	2,146	11,528	2,048	31
1,820	1,137	683	107,900	1,713	10,941	15,014	80,232	12,243	1,580	9,027	13,804	32
5,779	3,563	2,216	319,034	5,391	30,266	47,849	235,528	38,665	5,100	28,548	44,316	33
...	...	...	66	...	2	4	60	(2)	(2)	...	2	34
85	85	...	30,100	138	5,185	800	23,977	998	7	735	334	35
51	49	2	131	8	17	17	89	72	...	38	1	36
3	3	(2)	325	10	25	34	256	21	9	7	62	37
15	8	6	859	1	50	140	668	111	30	79	13	38

Table 3B.—Detailed Statistics for the Natural Gas Liquids Industry, by Subindustry and Type of Operation, for the United States: 1958

Item	All establishments, total	Natural gasoline subindustry					Cycle condensate subindustry		
		All establishments, total	Method of recovery				All establishments, total	Method of recovery	
			Absorption	Compression	Refrigeration and other	Combination		Absorption	Compression and other
Number of establishments, total.....	593	547	403	61	23	60	46	37	9
With 0-19 employees.....	303	293	193	58	16	26	10	6	4
With 20-99 employees.....	277	246	205	3	6	32	31	27	4
With 100 employees and over.....	13	8	5	...	1	2	5	4	1
Natural gas received for processing.....million cu. ft..	8,552,799	7,201,385	5,549,994	378,698	459,181	813,512	1,351,414	1,193,054	158,360
Net shipments of natural gas liquids.....1,000 barrels..	294,887	252,128	189,782	14,718	5,163	42,465	42,759	37,682	5,077
Value of shipments and receipts, total..... \$1,000..	1,625,098	1,418,295	971,693	100,916	169,153	176,533	206,803	173,952	32,851
Residue gas shipped.....do....	776,153	701,637	540,945	69,921	10,523	80,248	74,516	66,919	7,597
Natural gas liquids received for processing.....do....	142,030	130,894	16,283	273	111,381	2,957	11,136	5,110	6,026
Net shipments and receipts, total.....do....	706,915	585,764	414,465	30,722	47,249	93,328	121,151	101,923	19,228
Natural gas liquids.....do....	699,328	578,714	409,016	30,402	47,092	92,204	120,614	101,414	19,200
Other products and services.....do....	7,587	7,050	5,449	320	157	1,124	537	509	28
Value added in mining.....do....	587,580	508,553	358,753	16,877	39,281	93,642	79,027	62,971	16,056
Number of persons engaged, total.....	16,566	14,412	10,462	451	1,465	2,034	2,154	1,841	313
Production and related workers, average for year.....	13,445	11,758	9,094	414	504	1,746	1,687	1,446	241
March.....	13,551	11,872	9,194	421	512	1,745	1,679	1,445	234
May.....	13,509	11,826	9,158	413	513	1,742	1,683	1,447	236
August.....	13,641	11,924	9,188	416	519	1,801	1,717	1,475	242
November.....	13,140	11,464	8,841	423	495	1,705	1,676	1,435	241
Other employees.....	3,069	2,602	1,326	34	959	283	467	395	72
Proprietors and firm members.....	52	52	42	3	2	5	...	...	...
Performing manual labor.....	8	8	4	1	2	1	...	...	...
Man-hours worked by production and related workers.....1,000..	26,947	23,537	18,206	839	976	3,516	3,410	2,892	518
Principal expenses designated below, total..... \$1,000..	1,188,931	1,041,234	701,087	89,155	150,187	100,805	147,697	124,287	23,410
Wages of production and related workers.....do....	75,739	65,793	50,821	2,268	2,755	9,949	9,946	8,499	1,447
Salaries of all other employees.....do....	20,580	17,466	8,873	322	6,261	2,010	3,114	2,627	487
Supplies.....do....	46,026	42,663	29,980	2,284	5,376	5,023	3,363	2,658	705
Natural gas received for processing.....do....	850,356	736,042	567,946	82,532	10,170	75,394	114,314	104,390	9,924
Natural gas liquids received for further processing.....do....	142,030	130,894	16,283	273	111,381	2,957	11,136	5,110	6,026
Fuels purchased.....do....	4,521	4,388	1,763	244	2,246	135	133	39	94
Electric energy purchased.....do....	4,696	4,411	2,881	111	645	774	285	257	28
Contract work.....do....	44,983	39,577	22,540	1,121	11,353	4,563	5,406	707	4,699
Purchased machinery installed.....do....	39,836	37,297	30,006	1,627	3,462	2,202	2,539	2,202	337
Capital expenditures.....do....	94,930	85,530	58,459	4,153	14,761	8,157	9,400	4,382	5,018
Plant and other construction.....do....	53,566	46,860	27,353	2,585	11,362	5,560	6,706	2,025	4,681
New machinery and equipment.....do....	40,441	37,783	30,415	1,383	3,399	2,586	2,658	2,321	337
Used plant and equipment.....do....	923	887	691	185	...	11	36	36	...
Energy used.....million kwh equivalent..	142,130	121,642	92,490	4,736	6,091	18,325	20,488	18,192	2,296
Residue gas.....million cu. ft..	426,920	361,487	288,520	9,581	4,285	59,101	65,433	58,951	6,482
Fuels purchased:									
Fuel oil.....1,000 barrels..	68	68	30	( <sup>1</sup> )	38	( <sup>1</sup> )	...	...	...
Gas.....million cu. ft..	32,815	31,770	10,820	5,783	15,029	138	1,045	76	969
Other fuels.....\$1,000..	471	437	302	...	27	108	34	32	2
Electric energy purchased....million kwh..	436	412	255	9	77	71	24	22	2
Electric energy generated and used....do....	1,059	876	670	19	11	176	183	165	18

<sup>1</sup>Less than one-half of the unit of measure specified.



Table 4.—Selected Statistics for Establishments Classified by Employment Size, for the United States: 1958

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of--					
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees
1321	NATURAL GAS LIQUIDS:							
	Number of establishments.....	593	88	71	144	213	64	13
	All employees:							
	Number.....	<sup>1</sup> 16,514	191	494	2,063	6,685	4,036	2,073
	Payroll.....\$1,000..	<sup>1</sup> 96,319	1,037	2,668	11,678	38,611	23,805	12,239
	Production and related workers:							
	Number.....	13,445	178	432	1,831	5,889	3,349	1,766
	Man-hours.....1,000..	26,947	355	900	3,788	11,757	6,677	3,470
	Wages.....\$1,000..	75,739	870	2,266	10,199	33,094	19,159	10,151
	Value added in mining.....do..	587,580	4,369	10,351	79,411	231,436	159,376	102,637
	Value of shipments and receipts.....do..	1,625,098	23,642	37,975	186,255	731,345	370,247	275,634
	Capital expenditures.....do..	94,930	13,574	7,720	15,635	29,433	12,837	15,731
	Number of producing establishments by type of operation, total.....	589	84	71	144	213	64	13
	Natural gasoline subindustry, total.....	543	81	69	139	189	57	8
	Absorption.....	400	34	43	113	163	42	5
	Compression.....	61	34	17	7	2	1	...
	Refrigeration and other.....	22	7	5	3	4	2	1
	Combination.....	60	6	4	16	20	12	2
	Cycle condensate subindustry, total.....	46	3	2	5	24	7	5
	Absorption.....	37	1	2	3	21	6	4
	Compression.....	4	1	...	1	...	1	1
	Refrigeration and other.....	2	1	...	1	...	...	...
	Combination.....	3	...	...	...	3	...	...

<sup>1</sup>Includes figures for separately reported central offices and related facilities. These were not included in the figures distributed by size of establishment.

Table 5.—Industry-Product Analysis; Summary of Industry Shipments and Receipts and Net Shipments of Natural Gas Liquids for the United States: 1958 and 1954

Ind. code	Industry and year	Value of shipments and receipts of establishments classified in the industry					Value of net shipments of natural gas liquids shipped by establishments in all industries		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing (\$1,000)	Total (produced in all industries)	Produced in this industry	Produced in other industries
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1321	Natural gas liquids.....1958.. 1954..	1,625,098 (NA)	1,617,511 (NA)	1,708 1,460	5,879 4,578	... ...	699,328 576,828	699,328 576,828	... ...

Table 6A.—Primary Products of the Natural Gas Liquids Industry, by Regions and States: 1958 and 1954

Product, region, and State	Unit of measure	1958			1954		
		Total production (quantity)	Total shipments (including interplant transfers) or receipts		Total production (quantity)	Total shipments (including interplant transfers) or receipts	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
United States, total:							
Natural gas liquids (gross) <sup>1</sup> .....	1,000 barrels..	358,894	359,589	841,358	291,169	287,786	634,384
Natural gas liquids received from other natural gas liquids plants for further processing.....	...do.....	64,702	64,702	142,030	35,719	35,719	57,556
Net natural gas liquids <sup>2</sup> .....	...do.....	294,192	294,887	699,328	255,450	252,067	576,828
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	7,664,890	776,153	xxx	6,693,269	(NA)
Used for fuel at plant.....	...do.....	426,920	xxx	xxx	352,296	xxx	xxx
Middle Atlantic (Pennsylvania):							
Natural gas liquids <sup>1 4</sup> .....	1,000 barrels..	69	81	242	139	138	405
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	5,287	1,468	xxx	19,939	(NA)
Used for fuel at plant.....	...do.....	65	xxx	xxx	40	xxx	xxx
North Central:							
Net natural gas liquids <sup>1 2</sup> .....	1,000 barrels..	16,268	16,070	38,531	12,335	12,236	21,906
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	579,967	123,982	xxx	527,600	(NA)
Used for fuel at plant.....	...do.....	15,163	xxx	xxx	12,802	xxx	xxx
Kansas:							
Natural gas liquids <sup>1 4</sup> .....	1,000 barrels..	5,359	5,177	10,957	(NA)	(NA)	(NA)
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	382,122	57,661	xxx	(NA)	(NA)
Used for fuel at plant.....	...do.....	6,144	xxx	xxx	(NA)	xxx	xxx
South Atlantic (West Virginia):							
Natural gas liquids (gross) <sup>1</sup> .....	1,000 barrels..	6,687	6,669	10,814	6,484	6,528	10,512
Net natural gas liquids <sup>2</sup> .....	...do.....	6,638	6,620	10,702	6,484	6,528	10,512
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	151,670	21,081	xxx	194,439	(NA)
Used for fuel at plant.....	...do.....	3,898	xxx	xxx	2,621	xxx	xxx
East South Central:							
Net natural gas liquids <sup>1 2</sup> .....	1,000 barrels..	7,265	7,312	12,158	6,241	6,302	9,785
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	584,956	24,649	xxx	475,193	(NA)
Used for fuel at plant.....	...do.....	5,779	xxx	xxx	5,973	xxx	xxx
Kentucky:							
Net natural gas liquids <sup>1 2</sup> .....	1,000 barrels..	6,518	6,572	10,291	5,258	5,322	7,445
Mississippi:							
Natural gas liquids <sup>1 4</sup> .....	...do.....	747	740	1,867	983	980	2,340
West South Central:							
Natural gas liquids <sup>1</sup> .....	...do.....	271,585	272,740	637,578	(D)	(D)	(D)
Natural gas liquids received from other natural gas liquids plants for further processing.....	...do.....	59,110	59,110	131,147	(D)	(D)	(D)
Net natural gas liquids <sup>2</sup> .....	...do.....	212,475	213,630	506,431	184,662	181,770	397,718

See footnotes at end of table.



Table 6A.—Primary Products of the Natural Gas Liquids Industry,  
by Regions and States: 1958 and 1954—Continued

Product, region, and State	Unit of measure	1958			1954		
		Total production (quantity)	Total shipments (including interplant transfers) or receipts		Total production (quantity)	Total shipments (including interplant transfers) or receipts	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
West South Central--Continued							
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	5,241,323	462,077	xxx	4,511,846	(NA)
Used for fuel at plant.....	...do.....	319,034	xxx	xxx	267,536	xxx	xxx
Arkansas:							
Net natural gas liquids <sup>1 2</sup> .....	1,000 barrels..	2,266	2,267	5,390	2,602	2,572	5,697
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	33,539	2,707	xxx	51,736	(NA)
Used for fuel at plant.....	...do.....	5,391	xxx	xxx	5,310	xxx	xxx
Louisiana:							
Natural gas liquids <sup>1</sup> .....	1,000 barrels..	28,406	28,645	81,088	(D)	(D)	(D)
Natural gas liquids received from other natural gas liquids plants for further processing.....	...do.....	3,898	3,898	10,508	(D)	(D)	(D)
Net natural gas liquids <sup>2</sup> .....	...do.....	24,508	24,747	70,580	22,408	22,159	61,263
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	876,149	91,253	xxx	564,479	(NA)
Used for fuel at plant.....	...do.....	30,266	xxx	xxx	28,789	xxx	xxx
Oklahoma:							
Net natural gas liquids <sup>1 2</sup> .....	1,000 barrels..	28,168	28,162	54,964	22,218	22,356	39,048
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	589,221	43,402	xxx	464,406	(NA)
Used for fuel at plant.....	...do.....	47,849	xxx	xxx	36,074	xxx	xxx
Texas:							
Natural gas liquids <sup>1</sup> .....	1,000 barrels..	209,100	210,021	489,405	(D)	(D)	(D)
Natural gas liquids received from other natural gas liquids plants for further processing.....	...do.....	51,567	51,567	113,908	(D)	(D)	(D)
Net natural gas liquids <sup>2</sup> .....	...do.....	157,533	158,454	375,497	137,434	134,683	291,710
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	3,742,414	304,715	xxx	3,431,225	(NA)
Used for fuel at plant.....	...do.....	235,528	xxx	xxx	197,363	xxx	xxx
Mountain:							
Net natural gas liquids <sup>1 2</sup> .....	1,000 barrels..	22,880	22,633	45,386	14,170	13,798	25,114
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	639,166	63,404	xxx	474,443	(NA)
Used for fuel at plant.....	...do.....	38,665	xxx	xxx	25,748	xxx	xxx
Wyoming:							
Natural gas liquids <sup>1 4</sup> .....	1,000 barrels..	2,547	2,522	5,779	2,248	2,219	5,252
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	46,310	4,106	xxx	52,016	(NA)
Used for fuel at plant.....	...do.....	5,100	xxx	xxx	4,163	xxx	xxx
New Mexico:							
Net natural gas liquids <sup>1 2</sup> .....	1,000 barrels..	17,107	16,903	32,421	10,869	10,540	17,292
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	538,513	55,059	xxx	390,314	(NA)
Used for fuel at plant.....	...do.....	28,548	xxx	xxx	18,511	xxx	xxx
Montana and Colorado:							
Natural gas liquids <sup>1 4</sup> .....	1,000 barrels..	3,226	3,208	7,186	1,053	1,039	2,570
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	54,343	4,239	xxx	32,113	(NA)
Used for fuel at plant.....	...do.....	5,017	xxx	xxx	3,074	xxx	xxx
Pacific (California):							
Net natural gas liquids <sup>1 2</sup> .....	1,000 barrels..	28,597	28,541	85,878	31,419	31,295	111,388
Residue gas:							
Shipped <sup>3</sup> .....	Million cu. ft.	xxx	462,521	79,502	xxx	489,809	(NA)
Used for fuel at plant.....	...do.....	44,316	xxx	xxx	37,576	xxx	xxx

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Represents natural gasoline, cycle condensate, and liquefied petroleum gases, including drip from lines, isopentane, and ethane. Also includes finished gasoline, kerosene, and distillate and residual oils produced at natural gasoline plants.<sup>2</sup>Represents gross natural gas liquids less natural gas liquids received from other natural gas liquids plants for further processing.<sup>3</sup>Represents all residue gas used by the reporting company at other company operations, gas returned to supplying producer, and gas delivered to other companies.<sup>4</sup>No natural gas liquids were received for further processing in this State. Hence, these figures are equivalent to net natural gas liquids, see footnote 2.

Table 6B. Shipments of Primary Products of the Natural Gas Liquids Industry  
Distributed by Unit Values: 1958

Product and average unit value at plant <sup>1</sup>	Unit of measure	Quantity shipped		Value of shipments	
		Quantity	Percent of total quantity	Value (\$1,000)	Percent of total value
Natural gas liquids, total.....	1,000 barrels..	359,589	100.0	841,358	100.0
Less than \$1.26.....	..do.....	3,030	0.9	3,380	0.4
\$1.26-\$1.41.....	..do.....	13,022	3.6	17,154	2.1
\$1.42-\$1.59.....	..do.....	29,084	8.1	43,148	5.1
\$1.60-\$1.79.....	..do.....	34,569	9.6	59,071	7.0
\$1.80-\$2.04.....	..do.....	61,162	17.0	117,602	14.0
\$2.05-\$2.29.....	..do.....	37,587	10.5	81,480	9.7
\$2.30-\$2.59.....	..do.....	60,003	16.7	148,224	17.6
\$2.60-\$2.94.....	..do.....	37,215	10.3	102,721	12.2
\$2.95-\$3.34.....	..do.....	68,402	19.0	211,985	25.2
\$3.35-\$3.79.....	..do.....	12,659	3.5	44,391	5.3
\$3.80-\$4.29.....	..do.....	1,502	0.4	5,935	0.7
\$4.30-\$4.84.....	..do.....	1,037	0.3	4,595	0.5
\$4.85 and over.....	..do.....	317	0.1	1,672	0.2
Residue gas, total.....	Million cu. ft.	7,664,890	100.0	776,153	100.0
Quantity with no value assigned.....	..do.....	626,050	8.2	...	0.0
Less than 2.9¢.....	..do.....	617,490	8.1	6,617	0.8
2.9¢-3.2¢.....	..do.....	72,190	0.9	2,208	0.3
3.3¢-3.7¢.....	..do.....	157,390	2.1	5,702	0.7
3.8¢-4.2¢.....	..do.....	43,890	0.6	1,751	0.2
4.3¢-4.7¢.....	..do.....	30,520	0.4	1,410	0.2
4.8¢-5.3¢.....	..do.....	97,240	1.3	4,958	0.6
5.4¢-6.0¢.....	..do.....	134,180	1.7	7,851	1.0
6.1¢-6.8¢.....	..do.....	215,320	2.8	13,752	1.8
6.9¢-7.7¢.....	..do.....	636,150	8.3	46,776	6.0
7.8¢-8.7¢.....	..do.....	750,770	9.8	62,633	8.1
8.8¢-9.9¢.....	..do.....	777,330	10.1	73,445	9.5
10.0¢-11.1¢.....	..do.....	777,870	10.1	82,749	10.7
11.2¢-12.5¢.....	..do.....	930,250	12.1	110,693	14.3
12.6¢-14.1¢.....	..do.....	497,450	6.5	66,959	8.6
14.2¢-15.9¢.....	..do.....	245,040	3.2	37,728	4.9
16.0¢-17.9¢.....	..do.....	245,920	3.2	40,434	5.2
18.0¢-20.4¢.....	..do.....	68,990	0.9	13,389	1.7
20.5¢-22.9¢.....	..do.....	407,300	5.3	89,928	11.6
23.0¢-25.9¢.....	..do.....	75,950	1.0	17,955	2.3
26.0¢ and over.....	..do.....	257,600	3.4	89,215	11.5

<sup>1</sup>The "average values" are based on the entire shipments of the specified product by each establishment. Thus they are representative of varied average prices among establishments but not of variations within an establishment.

Table 7.—Supplies Used in the Natural Gas Liquids Industry: 1958 and 1954

(Detailed figures for quantity and cost of supplies used were not obtained for this industry. For the total cost of supplies used, for the quantity and cost of natural gas received for processing and natural gas liquids received for further processing, and for the quantity and total cost of purchased fuels and electricity used, see tables 3A and 3B.)

Table 8.—General Statistics for Establishments in the United States.  
Classified by Output Per Man-Hour: 1958

(Not shown for this industry.)



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Divisions: 1958

Ind. code	Industry, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab-lishments, number	All employees		Production and related workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1321	NATURAL GAS LIQUIDS:									
	United States, total.....	593	16,514	96,319	13,445	26,947	75,739	587,580	1,625,098	94,930
	Less than 0.10.....	82	2,615	15,020	2,248	4,499	12,703	251,978	647,714	22,443
	0.10-0.19.....	135	5,065	29,700	4,377	8,740	25,049	209,262	510,681	28,569
	0.20-0.29.....	102	2,871	16,673	2,465	4,971	13,842	69,125	195,455	9,251
	0.30-0.39.....	69	1,855	10,645	1,608	3,172	8,986	30,895	135,714	12,623
	0.40-0.49.....	46	1,053	5,940	929	1,851	5,086	13,700	43,572	7,327
	0.50-0.59.....	24	348	2,100	312	653	1,737	3,822	19,960	3,587
	0.60-0.69.....	19	273	1,508	216	463	1,146	2,363	13,603	157
	0.70-0.79.....	14	194	1,040	179	396	935	1,384	9,668	5,163
	0.80-0.89.....	13	389	2,388	346	672	2,002	2,886	9,991	54
	0.90-0.99.....	12	191	1,049	170	344	909	1,119	4,726	315
	1.00 and over.....	42	520	2,975	451	882	2,517	1,968	20,646	1,270
	Undistributed <sup>2</sup> .....	35	1,140	7,281	144	304	827	( <sup>3</sup> )	13,368	4,171
	South Atlantic (West Virginia), total....	38	343	1,862	323	649	1,731	8,501	31,895	5,365
	0.10-0.19.....	2	147	866	138	295	809	6,644	22,118	19
	0.20-0.29.....	2								
	0.30-0.39.....	2	61	362	60	118	354	1,136	2,993	5,283
	0.40-0.49.....	1								
	0.50-0.59.....	2	79	408	70	140	347	721	3,988	61
	0.60-0.69.....	3								
	0.80-0.89.....	1	28	130	27	53	125	80	2,173	2
	1.00 and over.....	6								
	Undistributed.....	19	28	96	28	43	96	( <sup>3</sup> )	623	...
	West South Central, total.....	387	12,275	71,006	9,763	19,649	54,347	440,047	1,103,100	65,420
	Less than 0.10.....	55	1,944	10,940	1,671	3,354	9,235	188,913	442,037	18,530
	0.10-0.19.....	91	3,771	21,927	3,249	6,491	18,469	155,731	362,202	24,315
	0.20-0.29.....	77	2,335	13,535	1,998	4,047	11,169	56,479	161,533	5,578
	0.30-0.39.....	45	1,230	6,970	1,065	2,115	5,844	20,052	64,449	7,376
	0.40-0.49.....	35	839	4,651	743	1,489	4,003	10,768	27,171	1,956
	0.50-0.59.....	12	201	1,244	182	385	1,004	2,241	7,803	3,490
	0.60-0.69.....	11	165	894	122	270	645	1,416	9,630	61
	0.70-0.79.....	12	331	1,844	307	628	1,633	2,309	10,861	476
	0.80-0.89.....	9								
	0.90-0.99.....	6	112	572	101	201	497	609	3,157	283
	1.00 and over.....	23	352	1,991	301	592	1,676	1,336	12,884	1,225
	Undistributed <sup>2</sup> .....	11	995	6,438	24	77	172	193	1,373	2,130
	Mountain, total.....	53	1,205	7,151	1,055	2,128	6,247	39,408	116,952	15,052
	Less than 0.10.....	8	141	886	122	242	809	12,372	43,946	2,797
	0.10-0.19.....	13	422	2,424	367	725	2,072	16,950	29,007	2,052
	0.20-0.29.....	12	278	1,621	245	483	1,424	6,152	14,844	3,227
	0.30-0.39.....	7	169	997	153	304	918	2,865	20,967	4,813
	0.50-0.59.....	4	49	316	45	103	278	574	905	94
	0.60-0.69.....	1	56	344	49	126	300	432	1,620	...
	0.70-0.79.....	1								
	0.80-0.89.....	1	90	563	74	145	446	62	5,663	2,069
	0.90-0.99.....	1								
	1.00 and over.....	3	325	2,075	278	539	1,696	1,054	18,507	49
	Undistributed <sup>2</sup> .....	2								
	Pacific (California), total.....	67	1,801	11,113	1,531	2,981	9,043	59,553	171,087	2,048
	Less than 0.10.....	13	325	1,987	274	536	1,618	25,676	56,665	880
	0.10-0.19.....	20	549	3,454	475	932	2,849	22,226	59,606	435
	0.20-0.29.....	9	176	1,025	158	314	887	4,344	9,073	254
	0.30-0.39.....	6	211	1,241	162	304	912	3,599	17,544	346
	0.40-0.49.....	5	116	723	100	195	595	1,656	5,916	47
	0.50-0.59.....	3	36	223	32	61	194	415	980	1
	0.60-0.69.....	4	63	385	52	100	292	583	2,796	36
	0.80-0.89.....	1	325	2,075	278	539	1,696	1,054	18,507	49
	1.00 and over.....	5								
	Undistributed <sup>2</sup> .....	1								

<sup>1</sup>Note that in computing these ratios contract employment serving the establishment is excluded. The cost of contract work in 1958 amounted to 47 percent of payroll for the Natural Gas Liquids Industry.

<sup>2</sup>Represents establishments with zero or negative value added; establishments with no employees; and for number of employees and payroll, includes figures for separately reported central offices and related facilities.

<sup>3</sup>Not shown since cost of supplies, purchased fuels and electricity, contract work, and purchased machinery exceeds value of shipments and receipts plus capital expenditures.

Table 10.—Value Added in Mining Per Employee by Size of Establishment for the United States: 1958

Ind. code	Industry and value added per employee class <sup>1</sup>	Number of—		Number of establishments with average employment of—			
		Estab- lishments	Em- ployees	0-19	20-49	50-99	100-249
1321	NATURAL GAS LIQUIDS, TOTAL.....	593	16,514	303	213	64	13
	Less than \$3,000.....	22	166	20	2	...	...
	\$3,000-\$3,999.....	12	104	10	2	...	...
	\$4,000-\$4,999.....	11	250	6	4	1	...
	\$5,000-\$5,999.....	14	147	13	1	...	...
	\$6,000-\$6,999.....	17	224	12	5	...	...
	\$7,000-\$7,999.....	14	408	10	3	...	1
	\$8,000-\$8,999.....	12	164	10	2	...	...
	\$9,000-\$9,999.....	11	208	6	5	...	...
	\$10,000-\$12,499.....	43	784	27	16	...	...
	\$12,500-\$14,999.....	31	745	14	14	3	...
	\$15,000-\$17,499.....	40	1,117	15	21	4	...
	\$17,500-\$19,999.....	29	806	12	10	7	...
	\$20,000 and over.....	304	10,253	117	128	47	12
	Negative value added.....	26	166	24	...	2	...
	No employees.....	7	...	7	...	...	...
	Central offices and related facilities.....	...	972	...	...	...	...

<sup>1</sup>See Table 9, footnote 1.

Table 11.—Hourly Earnings of Production and Related Workers for Establishments with 10 or More Employees, by Divisions: 1958

Ind. code	Industry by hourly earnings classes	Number of—		Number of establishments with 10 or more employees in—								
		Estab- lish- ments	Em- ploy- ees <sup>1</sup>	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun- tain	Pacific
1321	NATURAL GAS LIQUIDS, TOTAL.....	434	14,857	...	...	6	17	9	6	306	35	55
	\$1.00-\$1.49.....	4	62	...	...	...	...	...	...	4	...	...
	\$1.50-\$1.99.....	22	461	...	...	...	1	...	...	20	1	...
	\$2.00-\$2.49.....	66	1,751	...	...	...	2	5	3	48	4	...
	\$2.50-\$2.99.....	170	6,717	...	...	1	8	2	1	133	16	9
	\$3.00-\$3.49.....	161	5,553	...	...	5	6	2	1	94	11	42
	\$3.50 and over.....	11	313	...	...	...	...	...	1	7	3	...

<sup>1</sup>Excludes figures for separately reported central offices and related facilities.

Table 12.—Distribution of Operating Companies by Employment Size and by Number of Establishments for the United States: 1958

Ind. code	Industry by establishment count	Number of—			Number of establishments with average employment of—								
		Com- panies	Estab- lishments	Em- ployees <sup>1</sup>	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1321	NATURAL GAS LIQUIDS, TOTAL.....	176	593	15,542	88	71	144	213	64	13	...	...	...
	Multiunit companies, total.....	136	553	14,882	83	58	133	206	60	13	...	...	...
	1 establishment <sup>2</sup> .....	61	61	1,542	7	9	18	20	5	2	...	...	...
	2 establishments.....	26	52	913	13	10	9	16	4	...	...	...	...
	3 or 4 establishments.....	18	61	1,362	13	5	19	15	9	...	...	...	...
	5 or 6 establishments.....	9	47	1,048	6	7	11	20	3	...	...	...	...
	7-9 establishments.....	6	47	1,177	3	10	17	11	5	1	...	...	...
	10-14 establishments.....	6	75	1,760	9	5	25	31	4	1	...	...	...
	15-19 establishments.....	5	82	2,963	9	5	12	39	14	3	...	...	...
	20 or more establishments.....	5	128	4,117	23	7	22	54	16	6	...	...	...
	Single unit companies.....	40	40	660	5	13	11	7	4	...	...	...	...

<sup>1</sup>Excludes figures for separately reported central offices and related facilities.<sup>2</sup>Represents companies having at least one establishment classified in other industries.



# Oil and Gas Field Services

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Industry Group 138, Oil and Gas Field Services. The separate industries included in this group are as follows:

## S.I.C. Code and Title (1957 Edition)

- 1381--Drilling oil and gas wells
- 1382--Oil and gas field exploration services
- 1389--Oil and gas field services, n.e.c.

### Industry 1381, Drilling Oil and Gas Wells.

This industry represents establishments primarily engaged in drilling wells for oil or gas for others on a contract, fee, or other basis. This industry includes contractors that specialize in "spudding in," "drilling in," re-drilling, and directional drilling.

### Industry 1382, Oil and Gas Field Exploration Services.

This industry represents establishments primarily engaged in geophysical, geological, and other exploration work on a contract, fee, or other basis.

### Industry 1389, Oil and Gas Field Services, N.E.C.

This industry represents establishments primarily engaged in performing oil and gas field services, not elsewhere classified, for others on a contract, fee, or other basis, such as excavating slush pits and cellars; grading, and building foundations at well locations; well surveying; running, cutting, and pulling casings, tubes, and rods; cementing wells; shooting wells; perforating well casing; acidizing and chemically treating wells; and cleaning out, bailing, and swabbing wells.

Establishments primarily engaged in hauling oil and gas field supplies and equipment, and in oil and gas field machine shop work, are not included in the Mining Division, according to the Standard Industrial Classification, and were not covered in the 1958 and 1954 censuses. In the 1939 census, when such establishments were included, receipts for hauling and machine shop services accounted for about 8 percent of the total receipts for oil and gas field services as then defined.

Subindustry and Type of Operation Statistics. Separate subindustry statistics are shown in this report for establishments primarily performing 2 types of services each in Industries 1381 and 1382, and for 11 types of services in Industry 1389. (See tables 2 and 3B.)

Establishments classified in the Oil and Gas Field Services Industries, in general, filed one report for all oil and gas field services performed in the United States and Alaska. However, each report contained detailed data on the kinds of work performed and the locations of the work. All reports were classified on the basis of the principal kind of work performed and the principal State in which the service was performed. Table 3B shows in detail the receipts for each type of service performed by each subindustry classification of service establishments reports. Table 3A shows the total receipts for oil and gas field services performed in each division or State as a percent of the total receipts by establishments classi-

fied in that division or State. The figures indicate a fairly high degree of concentration of activities, although some contractors performed services in almost every oil producing State.

Some companies primarily performing oil and gas field services also operated oil or gas properties. Such companies were required to file separate reports for each State in which oil and gas field properties were operated and each report was classified on the basis of whether receipts from production or service activities in the State were greater. Separate statistics are shown in tables 2 and 3B for service establishments with and without well operations. About 10 percent of all service establishments included well operations, but reports including well operations accounted for over 20 percent of all establishments primarily engaged in drilling oil, gas, dry, or service wells. Service establishments operated about 8,500 oil and gas wells and drilled about 2,300 wells as operator. They produced about 15 million barrels of oil and 67 billion cubic feet of gas, but these each amounted to less than one percent of the total United States production of oil and gas.

Primary and Secondary Services. The total receipts of the Oil and Gas Field Services Industries in 1958 were \$1,626 million. Of this total, the Drilling Oil and Gas Wells Industry accounted for \$905 million, of which \$843 million were for receipts for services primary to the industry, \$8 million for services classified in other industries in Industry Group 138, nearly \$50 million for shipments of crude petroleum and natural gas, \$3 million for hauling and other services classified in other industries and miscellaneous receipts, and \$2 million for shipments of products purchased for resale without further processing. The Oil and Gas Field Exploration Services Industry accounted for \$87 million, of which \$84 million were for receipts for services primary to the industry, \$2 million for services classified in other industries in Industry Group 138, and \$1 million for products purchased for resale. The Oil and Gas Field Services, NEC, Industry accounted for \$634 million, of which \$561 million were for services primary to the industry, \$7 million for services classified in other industries in Industry Group 138, \$2 million for shipments of crude petroleum and natural gas, \$6 million for hauling and other services classified in other industries and miscellaneous receipts, and \$58 million for shipments of products purchased for resale.

In addition to the services by industries covered in this report, establishments classified in the Crude Petroleum and Natural Gas Industry reported receipts of \$53 million for oil and gas field services performed for others, and such services amounting to \$0.3 million were reported by the Natural Gas Liquids and Nonmetallic Minerals (Except Fuels) Services Industries.

The general statistics (employment, payrolls, receipts for services and shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the performance of secondary services or production of minerals. This fact should be taken into account in comparing industry statistics (tables 1-4 and



7-12) with receipts for oil and gas field services by all industries and drilling statistics for all contract drilled wells (tables 6A and 6D). The extent of the "activity mix" is indicated in table 5A which shows the primary and secondary activities of an industry and also the receipts for primary services performed in the industry and separately those performed as secondary activities in other industries.

**State and County Statistics.** Each report for all oil and gas field operations in the United States and Alaska contained an inquiry requesting, by State and county, the receipts for services performed for others and the quantity of crude petroleum and natural gas shipped in 1958, and employment on March 15. State reports requested such information by county within State. No county statistics were obtained for these industries in the 1954 and previous censuses. The county distribution was not completely reported. However, the distributed figures accounted for about 84 percent of the total receipts for services.

In order to indicate the magnitude of the Oil and Gas Field Services Industries, by county, "Receipts for services and shipments" were estimated by county by adding to the reported receipts for services the estimated value of crude petroleum and natural gas shipped. This was obtained by multiplying the average unit values of crude petroleum and natural gas indicated by reported figures for each State by the reported county quantity figures. The "Approximate Payroll" figures were obtained by county primarily by multiplying the March 15 employment figures by the annual earnings indicated by oil and gas field service establishments classified in the State. Insofar as March 15 is not representative of average employment in the county there is bias in these estimated payroll figures. These partly estimated figures, together with employment and counts of "County establishments," by 3 size classes, are shown in table 2B.

**Drilling Costs.** The principal product of the oil and gas field services industries is completed oil and gas wells. Detailed statistics for the number, footage, and cost of drilling and completing oil, gas, dry, and service wells completed in 1958 are shown in the report for the Crude Petroleum and Natural Gas Industry. That report shows separately figures for wells drilled by own employees and for wells drilled on contract by others. Drilling contractors were also asked to report data on the number, footage, and total costs borne directly by them in drilling wells. These statistics are shown in table 6D of this report.

Drilling contractors reported drilling and completing 37,977 wells during 1958, as compared with 35,192 wells reported drilled on contract by operators of oil and gas

field properties. It is probable that operators frequently reported, as wells drilled by own company, wells on which contractors actually drilled most of the footage, but which the operating company drilled into the producing sands. Operating companies reported paying \$969 million to contractors for wells drilled on contract and completed during 1958. Contract drillers reported receipts during 1958 for drilling oil, gas, dry, and service wells amounting to \$822 million, and in addition, contractors reported receipts of \$73 million for drilling in, spudding in, tailing in, and reworking wells; \$55 million for running, cutting, and pulling casing, tubes, and rods; \$82 million for cementing wells; and \$9 million for excavating slush pits and cellars. Most of these costs would be charged by the operating company to cost of drilling and completing wells. Other major contract receipts which would be partly so charged by operating companies are \$85 million for geophysical and other exploration work, \$100 million for well surveying and well logging, \$39 million for perforating well casing, and \$69 million for acidizing and other chemical treatment of wells.

The kinds of wells drilled on contract in 1958, as reported by drilling contractors, were 21,327 oil wells, 3,429 gas wells, 12,140 dry holes, and 1,081 service wells. Operating companies reported as drilled on contract 17,920 oil wells, 3,764 gas wells, 11,800 dry holes, and 1,708 service wells. Some contractors found it difficult to report the kind of wells drilled, since the wells were frequently drilled into producing sands by the operators themselves and the contractor's records did not always indicate whether or not the hole resulted in a producing well; if a producer, whether the principal product was oil or gas; or if not a producer, whether the hole would be used as a service well.

**Payments and Receipts for Oil and Gas Field Services.** The following table shows for divisions and selected States the total receipts for oil and gas field services performed by all establishments classified in the mineral industries and the total payments for such services by the Crude Petroleum and Natural Gas and Oil and Gas Field Services Industries. In this table the receipts for oil and gas field services shown are based on the data reported by State and county and thus should be comparable by area with the figures reported by operators of oil and gas field properties. Since the allocation by State was not completely reported, some of the area differences are due to some over-allocation of data from some of the smaller reports to the principal State in which services were performed. Differences between payments and receipts also result from the exclusion from "Receipts for oil and gas field services" of hauling and machine shop work; and from the probable exclusion from "Payments for contract work" and inclusion as "Cost of purchased machinery" of some services performed by contractors who furnished and installed machinery.



## OIL AND GAS FIELD SERVICES

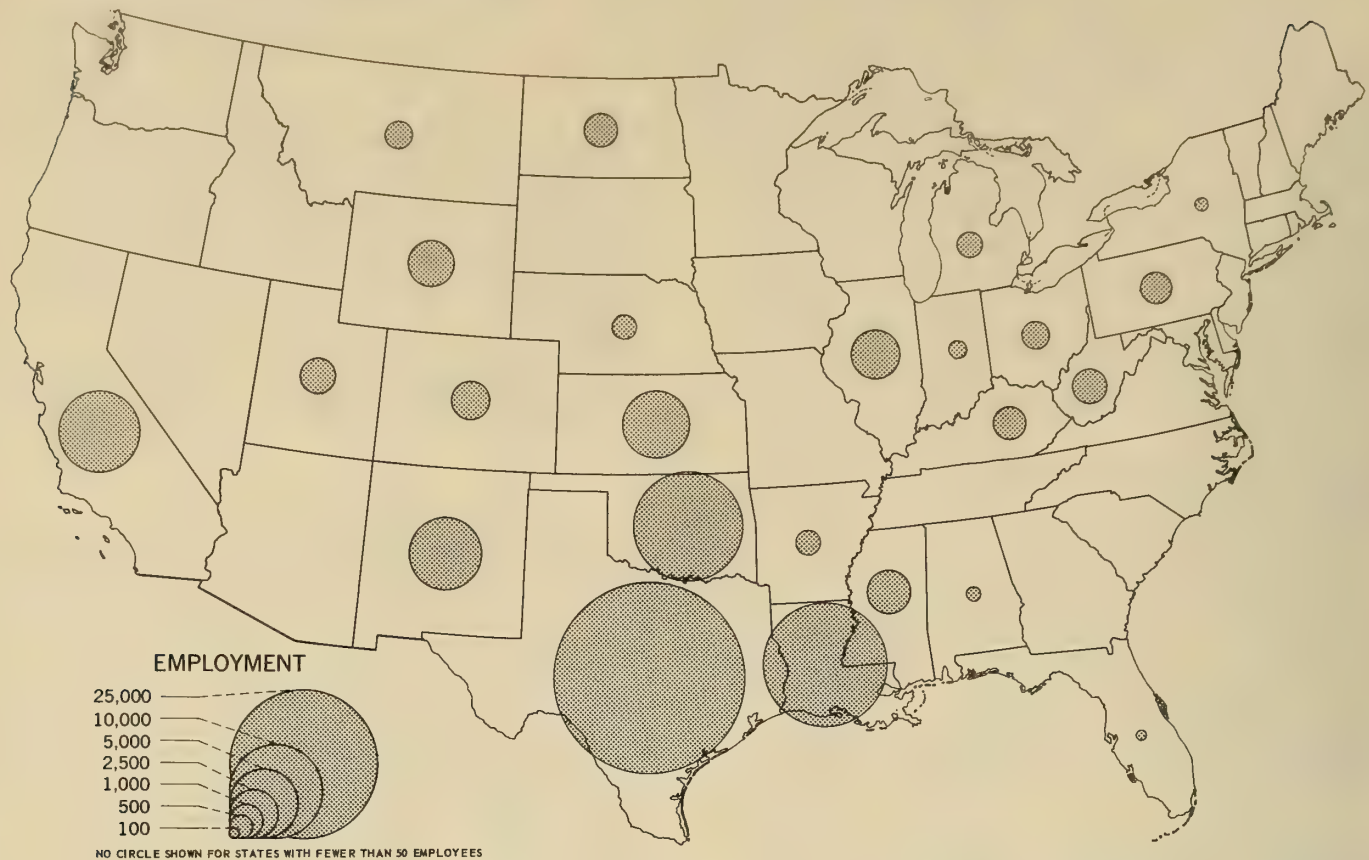
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## PAYMENTS AND RECEIPTS FOR OIL AND GAS FIELD SERVICES: 1958

Division and State	Payments for services reported by industry using the service (\$1,000,000)			Receipts for services reported by the service establishment (\$1,000,000)			
	Total	Contract services for the Crude Petroleum and Natural Gas Industry	Subcontract services for the Oil and Gas Field Services Industries	Total	By the Oil and Gas Field Services Industries	By the Crude Petroleum and Natural Gas Industry	By the Natural Gas Liquids and Nonmetallic Minerals (Except Fuels) Industries
United States, total..	1,514.3	1,449.6	64.7	1,555.8	1,502.0	53.5	0.3
Middle Atlantic.....	12.3	11.9	0.4	15.7	15.4	0.3	...
Pennsylvania.....	11.2	10.8	0.4	13.4	13.2	0.2	...
East North Central.....	40.9	39.0	1.9	57.7	53.9	3.8	...
Illinois.....	24.5	23.7	0.8	32.2	29.3	2.9	...
West North Central.....	87.1	83.3	3.8	100.4	94.0	6.4	...
North Dakota.....	20.8	20.3	0.5	20.3	20.3	0.0	...
Nebraska.....	10.7	10.4	0.3	13.0	12.1	0.9	...
Kansas.....	55.2	52.3	2.9	66.5	61.1	5.4	...
South Atlantic.....	9.1	9.0	0.1	13.4	13.2	0.2	...
East South Central.....	42.3	40.3	2.0	50.6	46.3	4.3	...
Kentucky.....	11.1	10.6	0.5	13.4	12.6	0.8	...
Mississippi.....	28.1	26.5	1.6	33.5	30.8	2.7	...
West South Central.....	1,022.8	977.4	45.4	1,037.2	1,004.6	32.3	0.3
Louisiana.....	336.7	316.4	20.3	319.8	314.7	5.1	...
Oklahoma.....	123.1	118.7	4.4	143.5	140.0	3.5	...
Texas.....	553.7	553.6	20.1	562.3	539.2	22.8	0.3
Mountain.....	200.9	192.6	8.3	195.8	193.5	2.3	...
Montana.....	15.4	15.0	0.4	12.6	12.4	0.2	...
Wyoming.....	37.6	35.9	1.7	40.9	40.6	0.3	...
Colorado.....	26.8	24.7	2.1	22.6	22.2	0.4	...
New Mexico.....	89.5	86.1	3.4	92.7	91.3	1.4	...
Utah.....	31.6	30.9	0.7	26.4	26.4	...	...
Pacific.....	98.9	96.1	2.8	85.0	81.1	3.9	...
California.....	97.9	95.1	2.8	84.4	80.5	3.9	...

# OIL AND GAS FIELD SERVICES

Distribution of Employment by State: 1958



## Employment : 1840-1958

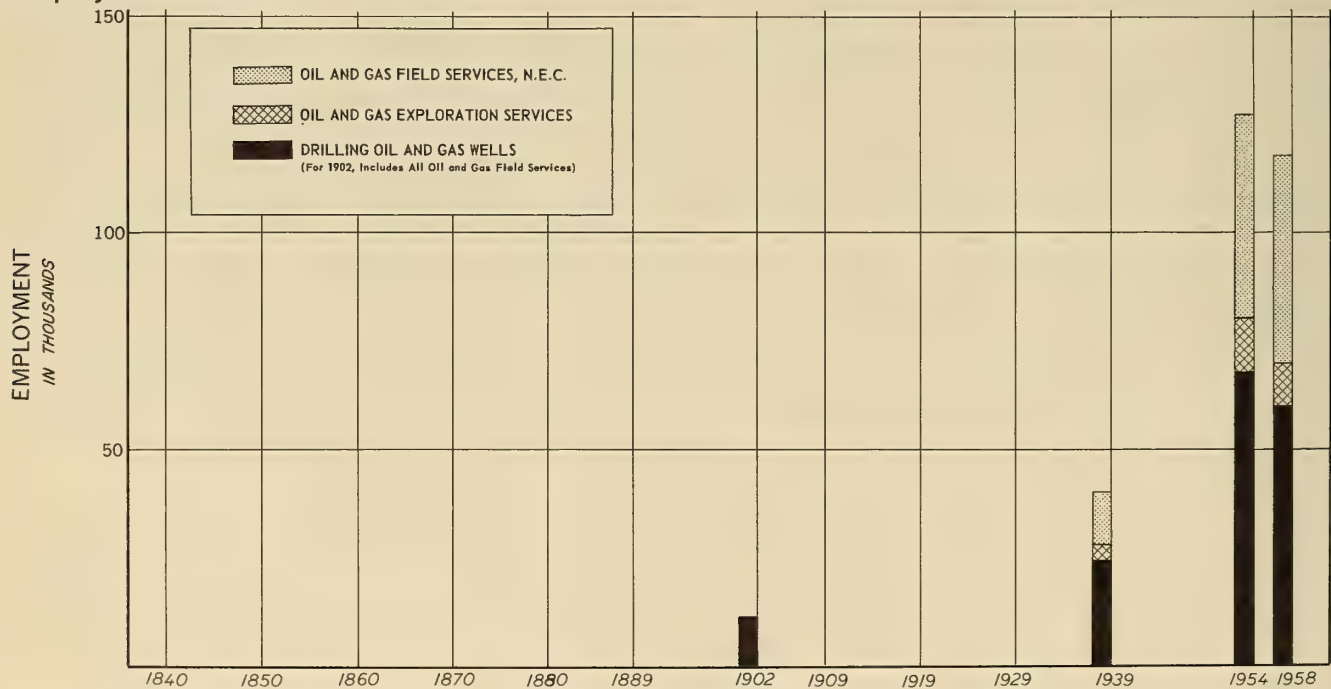




Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanations of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. I)

Industry code, Industry, and year	Operating com- panies, number	Establishments, number		All employees		Production and development workers			Value added in mining	Selected expenses (\$1,000)			Receipts for services and shipments (\$1,000)	Net receipts for services and shipments <sup>2</sup> (\$1,000)	Capital expendi- tures (\$1,000)
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		Supplies and purchased fuels and elec- tricity <sup>1</sup>	Sub- contract work	Purchased machinery installed			
138--OIL AND GAS FIELD SERVICES:															
1958.....	5,682	5,915	1,307	116,246	560,915	98,045	212,225	437,369	1,107,787	476,257	64,776	128,375	1,625,883	1,564,531	151,312
1954.....	5,463	5,515	1,437	125,889	541,646	112,131	247,275	452,657	1,118,544	491,648	62,326	176,405	1,631,020	1,577,017	217,903
1939.....	1,619	(NA)	(NA)	39,762	65,219	35,159	57,720	51,523	(NA)	(NA)	(NA)	(NA)	(NA)	187,539	(NA)
1902 <sup>3</sup> .....	(NA)	(NA)	(NA)	11,217	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	17,416	(NA)
1381--DRILLING OIL AND GAS WELLS:															
1958.....	2,911	3,064	820	59,411	289,243	52,274	109,470	239,328	587,440	283,694	51,366	84,457	904,939	902,721	102,018
1954.....	2,846	2,869	878	67,976	304,312	62,145	133,216	264,797	623,967	335,813	46,048	120,385	972,745	968,129	153,468
1939.....	985	(NA)	(NA)	24,224	41,937	22,548	38,621	36,020	(NA)	(NA)	(NA)	(NA)	(NA)	128,107	(NA)
1382--OIL AND GAS EXPLORATION SER- VICES:															
1958.....	329	347	76	9,557	43,649	7,559	16,695	31,115	64,353	20,226	3,643	6,075	87,215	86,108	7,082
1954.....	309	330	(NA)	11,488	49,467	10,010	23,978	40,813	81,301	27,172	6,547	6,537	114,815	(D)	6,742
1939.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	12,642	(NA)
1389--OIL AND GAS FIELD SERVICES NEC:															
1958.....	2,456	2,504	411	47,278	228,023	38,212	86,060	166,926	455,994	172,337	9,767	37,843	633,729	575,702	42,212
1954.....	2,313	2,316	(NA)	46,425	187,867	39,976	90,081	147,047	413,276	128,663	9,731	49,483	543,460	(D)	57,693
1939 <sup>4</sup> .....	558	(NA)	(NA)	11,267	14,989	10,007	13,950	11,815	(NA)	(NA)	(NA)	(NA)	(NA)	46,790	(NA)
Survey, log, ce- ment services subindustry:															
1958.....	182	199	33	12,081	74,857	8,180	20,782	45,186	167,391	54,850	169	10,133	220,829	174,515	11,714
1954.....	123	124	(NA)	10,468	53,733	7,698	23,934	33,846	145,686	51,659	1,429	14,518	191,336	150,841	21,956
1939.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	14,395	(NA)
Miscellaneous oil and gas field services subindustry:															
1958.....	2,276	2,305	378	35,197	153,166	30,032	65,278	121,740	288,603	117,487	9,598	27,710	412,900	401,187	30,498
1954.....	2,190	2,192	(NA)	35,957	134,134	32,278	66,147	113,201	267,590	77,004	8,302	34,965	352,124	(D)	35,737
1939.....	535	(NA)	(NA)	10,227	12,635	9,169	12,235	10,055	(NA)	(NA)	(NA)	(NA)	(NA)	32,395	(NA)

NA Not available.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes the cost of gas purchased for gas lift and repressuring and the cost of products purchased for resale.<sup>2</sup>Represents gross receipts for services and shipments less value of shipments of products purchased for resale without further processing.<sup>3</sup>Represents number of employees engaged in contract work and payments for contract work as reported by companies operating oil and gas field properties.<sup>4</sup>Excludes data for establishments primarily engaged in well-surveying and well-logging services. The total receipts for services by such establishments in 1939 was \$5,028 thousand.

## MINERAL INDUSTRIES—INDUSTRY STATISTICS

Table 2A.—General Statistics by Divisions, States, and Type of Operation: 1958 and 1954

(In general, contractors prepared one report for all oil and gas field services performed in the United States and Alaska. These reports were classified on the basis of the principal kind of work and the principal State in which the service was performed. For explanation of column captions see Introduction. For more detailed historical statistics for these industries by State see table 2 of the corresponding chapter of 1954 Census of Mineral Industries, Vol. I)

Ind. code	Industry or subindustry, region, State, and type of operation <sup>1</sup>	1958										1954			
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuels and electricity, and contract work	Cost of purchased machinery installed	Receipts for services and shipments	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1381	DRILLING OIL AND GAS WELLS, TOTAL.....	3,064	820	59,411	289,243	52,274	109,470	239,328	587,440	335,060	84,457	904,939	102,018	67,976	623,967
	<u>Division and State</u>														
	Middle Atlantic.....	106	14	1,062	5,090	967	2,094	4,436	11,168	3,634	1,472	15,239	1,035	1,092	7,893
	New York.....	19	1	71	296	66	148	270	483	220	63	727	39	136	854
	Pennsylvania.....	87	13	991	4,794	901	1,946	4,166	10,685	3,414	1,409	14,512	996	956	7,039
	East North Central.....	369	42	3,719	14,225	3,342	6,046	12,367	27,270	14,526	2,626	40,836	3,586	3,962	36,191
	Ohio.....	112	6	808	3,085	754	1,480	2,780	5,287	2,949	390	8,194	432	772	4,537
	Indiana.....	64	2	384	1,366	348	586	1,114	2,959	1,176	351	4,124	362	336	2,330
	West North Central.....	280	44	3,356	15,120	2,973	6,099	12,771	31,384	17,629	4,131	47,499	5,645	4,091	39,884
	North Dakota.....	21	9	528	3,180	480	1,166	2,793	6,585	4,014	1,170	9,993	1,776	164	2,472
	Nebraska.....	20	4	239	952	227	402	856	2,437	1,661	565	3,884	779	219	2,667
	Kansas.....	233	31	2,570	10,891	2,248	4,486	9,032	22,063	11,892	2,395	33,260	3,090	3,650	34,353
	South Atlantic.....	106	14	929	3,392	880	1,986	3,186	5,300	2,324	512	7,529	607	1,147	7,506
	West Virginia.....	102	14	901	3,263	852	1,899	3,058	5,041	2,218	512	7,164	607	966	6,449
	East South Central.....	259	25	2,288	8,737	2,087	4,047	7,625	17,985	11,685	2,645	29,422	2,893	2,002	13,397
	Kentucky.....	227	11	1,355	3,873	1,289	2,266	3,646	7,194	3,176	673	10,341	702	1,091	6,570
	Alabama.....	5	1	58	200	52	77	170	347	346	43	693	43	14	104
	Mississippi.....	23	13	865	4,643	736	1,692	3,788	10,398	8,132	1,928	18,310	2,148	884	6,672
	West South Central.....	1,581	553	39,438	193,345	34,514	73,169	158,486	401,270	230,817	63,222	619,386	75,923	44,180	412,554
	Arkansas.....	34	5	419	1,594	386	710	1,402	3,700	2,202	595	5,906	591	262	2,301
	Louisiana.....	214	122	11,006	66,060	9,516	23,605	54,110	151,547	76,989	32,708	220,166	41,078	9,046	96,696
	Oklahoma.....	382	93	6,595	28,303	5,798	11,352	23,014	55,596	30,671	8,599	85,227	9,639	8,915	72,932
	Texas.....	951	333	21,418	97,388	18,814	37,502	79,960	190,427	120,955	21,320	308,087	24,615	25,957	240,625
	Mountain.....	264	95	5,946	32,932	5,213	11,618	27,230	65,355	39,607	6,395	102,928	8,429	6,265	59,474
	Wyoming.....	68	25	1,605	8,622	1,399	2,778	7,125	17,422	9,033	1,905	26,232	2,128	1,795	22,075
	Colorado.....	56	19	1,009	5,376	829	1,709	4,019	9,740	6,118	736	15,309	1,285	1,604	11,465
	New Mexico.....	92	37	2,114	11,593	1,911	4,457	9,960	23,865	14,564	2,137	38,284	2,282	2,007	18,724
	Utah.....	16	9	857	5,334	754	2,009	4,448	10,238	8,086	1,427	17,331	2,420	2,148	21,052
	Montana and Idaho.....	32	5	361	2,007	320	665	1,678	4,090	1,806	190	5,772	314	711	6,158
	Pacific.....	99	33	2,673	16,402	2,298	4,411	13,227	27,708	14,838	3,454	42,100	3,900	5,237	47,068
	<u>Principal Type of Service and Division, Region, or State</u>														
	United States, total.....	3,064	820	59,411	289,243	52,274	109,470	239,328	587,440	335,060	84,457	904,939	102,018	67,976	623,967
	Drilling oil, gas, dry or service wells.....	2,518	722	52,713	262,970	46,239	98,073	216,320	539,108	320,039	79,521	842,081	96,587	(NA)	(NA)
	With well operations....	525	236	13,866	64,519	12,076	24,822	52,960	149,891	87,912	24,717	229,432	33,088	(NA)	(NA)
	Without well operations..	1,993	486	38,847	198,451	34,163	73,251	163,360	389,217	232,127	54,804	612,649	63,499	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells.....	546	98	6,698	26,273	6,035	11,397	23,008	48,332	15,021	4,936	62,858	5,431	(NA)	(NA)
	With well operations....	67	17	945	3,356	855	1,729	2,922	6,806	2,435	674	9,175	740	(NA)	(NA)
	Without well operations..	479	81	5,753	22,917	5,180	9,668	20,086	41,526	12,586	4,262	53,683	4,691	(NA)	(NA)
	Middle Atlantic.....	106	14	1,062	5,090	967	2,094	4,436	11,168	3,634	1,472	15,239	1,035	1,092	7,893
	Drilling oil, gas, dry or service wells.....	96	14	1,012	4,903	919	1,982	4,256	10,907	3,543	1,433	14,880	1,003	(NA)	(NA)
	With well operations....	18	3	188	947	172	446	907	2,582	765	325	3,228	444	(NA)	(NA)
	Without well operations..	78	11	824	3,956	747	1,536	3,349	8,325	2,778	1,108	11,652	559	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells.....	10	...	50	187	48	112	180	261	91	39	359	32	(NA)	(NA)
	New York.....	19	1	71	296	66	148	270	483	220	63	727	39	136	854
	Drilling oil, gas, dry or service wells:														
	Without well operations..	16	1	60	240	55	116	214	367	200	42	591	18	(NA)	(NA)
	Pennsylvania.....	87	13	991	4,794	901	1,946	4,166	10,685	3,414	1,409	14,512	996	956	7,039
	Drilling oil, gas, dry or service wells:														
	Without well operations..	62	10	764	3,716	692	1,420	3,135	7,958	2,578	1,066	11,061	541	(NA)	(NA)

See footnotes at end of table.



Table 2A.—General Statistics by Divisions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry or subindustry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuels and electric- ity, and contract work	Cost of pur- chased machin- ery in- stalled	Receipts for services and ship- ments	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Principal Type of Service and Division, Region, or State—Con.</u>														
	East North Central.....	369	42	3,719	14,225	3,342	6,046	12,367	27,270	14,526	2,626	40,836	3,586	3,962	36,191
	Drilling oil, gas, dry or service wells.....	305	34	3,105	12,168	2,782	5,109	10,463	23,774	13,519	2,350	36,331	3,312	(NA)	(NA)
	With well operations....	70	16	1,121	4,474	976	1,798	3,721	9,717	5,131	1,179	13,848	2,179	(NA)	(NA)
	Without well operations	235	18	1,984	7,694	1,806	3,311	6,742	14,057	8,388	1,171	22,483	1,133	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells.....	64	8	614	2,057	560	937	1,904	3,496	1,007	276	4,505	274	(NA)	(NA)
	Without well operations.	58	7	569	1,912	517	864	1,776	3,149	943	217	4,090	219	(NA)	(NA)
	Ohio.....	112	6	808	3,085	754	1,480	2,780	5,287	2,949	390	8,194	432	772	4,537
	Drilling oil, gas, dry or service wells.....	105	6	779	2,938	727	1,415	2,649	5,057	2,888	375	7,899	421	(NA)	(NA)
	With well operations....	18	1	177	681	166	317	613	1,323	600	151	1,913	161	(NA)	(NA)
	Without well operations.	87	5	602	2,257	561	1,098	2,036	3,734	2,288	224	5,986	260	(NA)	(NA)
	Indiana.....	64	2	384	1,366	348	586	1,114	2,959	1,176	351	4,124	362	336	2,330
	Drilling oil, gas, dry or service wells:														
	Without well operations.	41	1	226	803	203	377	705	1,902	651	105	2,574	84	(NA)	(NA)
	Illinois:														
	Drilling oil, gas, dry or service wells.....	107	21	1,462	5,172	1,297	2,132	4,493	11,499	6,685	1,183	17,301	2,066	(NA)	(NA)
	With well operations....	30	12	669	2,501	569	987	2,098	6,230	3,242	625	8,550	1,547	(NA)	(NA)
	Without well operations.	77	9	793	2,671	728	1,145	2,395	5,269	3,443	558	8,751	519	(NA)	(NA)
	Michigan:														
	Drilling oil, gas, dry or service wells:														
	Without well operations.	30	3	363	1,963	314	691	1,606	3,152	2,006	284	5,172	270	(NA)	(NA)
	West North Central.....	280	44	3,356	15,120	2,973	6,099	12,771	31,384	17,629	4,131	47,499	5,645	4,091	39,884
	Drilling oil, gas, dry or service wells.....	198	42	2,850	13,245	2,515	5,271	11,034	27,738	16,473	3,874	42,854	5,231	(NA)	(NA)
	With well operations....	52	16	1,039	5,048	915	1,879	4,195	11,423	6,678	1,881	16,936	3,046	(NA)	(NA)
	Without well operations.	146	26	1,811	8,197	1,600	3,392	6,839	16,315	9,795	1,993	25,918	2,185	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells.....	82	2	506	1,875	458	828	1,737	3,646	1,156	257	4,645	414	(NA)	(NA)
	With well operations....	7	...	76	229	69	97	194	325	193	159	520	157	(NA)	(NA)
	Without well operations.	75	2	430	1,646	389	731	1,543	3,321	963	98	4,125	257	(NA)	(NA)
	North Dakota.....	21	9	528	3,180	480	1,166	2,793	6,585	4,014	1,170	9,993	1,776	164	2,472
	Drilling oil, gas, dry or service wells.....	18	9	521	3,154	474	1,161	2,773	6,532	3,990	1,170	9,918	1,774	(NA)	(NA)
	With well operations....	5	3	190	1,274	178	424	1,167	2,265	1,418	497	3,021	1,159	(NA)	(NA)
	Without well operations.	13	6	331	1,880	296	737	1,606	4,267	2,572	673	6,897	615	(NA)	(NA)
	Nebraska.....	20	4	239	952	227	402	856	2,437	1,661	565	3,884	779	219	2,667
	Drilling oil, gas, dry or service wells.....	15	3	205	817	193	337	721	2,201	1,560	564	3,546	779	(NA)	(NA)
	With well operations....	6	2	104	427	98	179	387	1,559	929	276	2,361	403	(NA)	(NA)
	Without well operations.	9	1	101	390	95	158	334	642	631	288	1,185	376	(NA)	(NA)
	Kansas.....	233	31	2,570	10,891	2,248	4,486	9,032	22,063	11,892	2,395	33,260	3,090	3,650	34,353
	Drilling oil, gas, dry or service wells.....	161	30	2,107	9,181	1,832	3,681	7,454	18,718	10,870	2,139	29,049	2,678	(NA)	(NA)
	With well operations....	41	11	745	3,347	639	1,276	2,641	7,599	4,331	1,108	11,554	1,484	(NA)	(NA)
	Without well operations.	120	19	1,362	5,834	1,193	2,405	4,813	11,119	6,539	1,031	17,495	1,194	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells.....	72	1	463	1,710	416	805	1,578	3,345	1,022	256	4,211	412	(NA)	(NA)
	With well operations....	7	...	76	229	69	97	194	325	193	159	520	157	(NA)	(NA)
	Without well operations.	65	1	387	1,481	347	708	1,384	3,020	829	97	3,691	255	(NA)	(NA)
	South Atlantic.....	106	14	929	3,392	880	1,986	3,186	5,300	2,324	512	7,529	607	1,147	7,506
	Drilling oil, gas, dry or service wells.....	102	14	916	3,346	867	1,951	3,140	5,212	2,307	509	7,424	604	(NA)	(NA)
	With well operations....	12	5	183	639	168	318	577	832	384	128	1,163	181	(NA)	(NA)
	Without well operations.	90	9	733	2,707	699	1,633	2,563	4,380	1,923	381	6,261	423	(NA)	(NA)
	West Virginia.....	102	14	901	3,263	852	1,899	3,058	5,041	2,218	512	7,164	607	966	6,449
	Drilling oil, gas, dry or service wells.....	98	14	888	3,217	839	1,864	3,012	4,953	2,201	509	7,059	604	(NA)	(NA)
	With well operations....	12	5	183	639	168	318	577	832	384	128	1,163	181	(NA)	(NA)
	Without well operations.	86	9	705	2,578	671	1,546	2,435	4,121	1,817	381	5,896	423	(NA)	(NA)

See footnotes at end of table.

Table 2A.—General Statistics by Divisions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry or subindustry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuels and electricity, and contract work	Cost of pur- chased machin- ery in- stalled	Receipts for services and ship- ments	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more employ- ees	Number	Payroll  (\$1,000)	Number	Man-hours  (1,000)	Wages  (\$1,000)							
	Principal Type of Service and Division, Region, or State—Con.														
	East South Central.....	259	25	2,288	8,737	2,087	4,047	7,625	17,985	11,685	2,645	29,422	2,893	2,002	13,397
	Drilling oil, gas, dry or service wells.....	241	24	2,174	8,388	1,983	3,814	7,305	17,395	11,510	2,601	28,629	2,877	(NA)	(NA)
	With well operations....	33	7	644	2,546	590	1,167	2,235	7,572	4,555	1,127	11,961	1,293	(NA)	(NA)
	Without well operations..	208	17	1,530	5,842	1,393	2,647	5,070	9,823	6,955	1,474	16,668	1,584	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells.....	18	1	114	349	104	233	320	590	175	44	793	16	(NA)	(NA)
	Without well operations..	15	1	89	274	84	163	251	452	142	36	614	16	(NA)	(NA)
	Kentucky.....	227	11	1,355	3,873	1,289	2,266	3,646	7,194	3,176	673	10,341	702	1,091	6,570
	Drilling oil, gas, dry or service wells:														
	Without well operations..	184	8	996	2,935	951	1,674	2,774	5,355	2,473	538	7,832	534	(NA)	(NA)
	Mississippi.....	23	13	865	4,643	736	1,692	3,788	10,398	8,132	1,928	18,310	2,148	884	6,672
	Drilling oil, gas, dry or service wells:														
	Without well operations..	16	8	485	2,743	397	909	2,151	4,178	4,140	893	8,203	1,008	(NA)	(NA)
	West South Central.....	1,581	553	39,438	193,345	34,514	73,169	158,486	401,270	230,817	63,222	619,386	75,923	44,180	412,554
	Drilling oil, gas, dry or service wells.....	1,258	478	34,969	176,286	30,472	65,623	143,694	369,464	221,732	59,831	578,898	72,129	(NA)	(NA)
	With well operations....	302	171	9,701	45,116	8,408	17,356	36,711	107,220	64,462	18,853	165,944	24,591	(NA)	(NA)
	Without well operations..	956	307	25,268	131,170	22,064	48,267	106,983	262,244	157,270	40,978	412,954	47,538	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells.....	323	75	4,469	17,059	4,042	7,546	14,792	31,806	9,085	3,391	40,488	3,794	(NA)	(NA)
	With well operations....	47	15	761	2,722	690	1,402	2,368	5,472	1,788	439	7,174	525	(NA)	(NA)
	Without well operations..	276	60	3,708	14,337	3,352	6,144	12,424	26,334	7,297	2,952	33,314	3,269	(NA)	(NA)
	Arkansas.....	34	5	419	1,594	386	710	1,402	3,700	2,202	595	5,906	591	262	2,301
	Drilling oil, gas, dry or service wells:														
	Without well operations..	22	3	259	1,036	235	454	907	1,978	1,439	458	3,461	414	(NA)	(NA)
	Louisiana.....	214	122	11,006	66,060	9,516	23,605	54,110	151,547	76,989	32,708	220,166	41,078	9,046	96,696
	Drilling oil, gas, dry or service wells.....	181	107	10,307	62,854	8,900	22,241	51,433	145,510	75,025	31,893	212,276	40,152	(NA)	(NA)
	With well operations....	32	19	1,402	6,732	1,223	2,333	5,684	19,732	11,576	6,534	29,047	8,795	(NA)	(NA)
	Without well operations..	149	88	8,905	56,122	7,677	19,908	45,749	125,778	63,449	25,359	183,229	31,357	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells.....	33	15	699	3,206	616	1,364	2,677	6,037	1,964	815	7,890	926	(NA)	(NA)
	With well operations....	5	3	90	365	86	218	343	837	208	29	1,029	45	(NA)	(NA)
	Without well operations..	28	12	609	2,841	530	1,146	2,334	5,200	1,756	786	6,861	881	(NA)	(NA)
	Oklahoma.....	382	93	6,595	28,303	5,798	11,352	23,014	55,596	30,671	8,599	85,227	9,639	8,915	72,932
	Drilling oil, gas, dry or service wells:														
	Without well operations..	229	43	3,267	13,649	2,920	5,540	11,345	24,366	14,460	2,674	38,698	2,802	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells:														
	With well operations....	13	2	157	484	145	289	437	905	369	193	1,224	243	(NA)	(NA)
	Texas.....	951	333	21,418	97,388	18,814	37,502	79,960	190,427	120,955	21,320	308,087	24,615	25,957	240,625
	Drilling oil, gas, dry or service wells.....	740	283	18,598	86,771	16,269	32,895	70,846	170,583	115,565	19,456	283,090	22,514	(NA)	(NA)
	With well operations....	184	110	5,761	26,408	5,037	10,530	21,864	60,461	37,643	6,969	95,524	9,549	(NA)	(NA)
	Without well operations..	556	173	12,837	60,363	11,232	22,365	48,982	110,122	77,922	12,487	187,566	12,965	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells.....	211	50	2,820	10,617	2,545	4,607	9,114	19,844	5,390	1,864	24,997	2,101	(NA)	(NA)
	With well operations....	29	10	514	1,873	459	895	1,588	3,730	1,211	217	4,921	237	(NA)	(NA)
	Without well operations..	182	40	2,306	8,744	2,086	3,712	7,526	16,114	4,179	1,647	20,076	1,864	(NA)	(NA)
	Mountain.....	264	95	5,946	32,932	5,213	11,618	27,230	65,355	39,607	6,395	102,928	8,429	6,265	59,474
	Drilling oil, gas, dry or service wells.....	229	86	5,299	29,836	4,643	10,401	24,498	59,165	36,983	5,505	94,013	7,640	(NA)	(NA)
	With well operations....	34	16	779	4,178	695	1,560	3,645	9,063	5,030	871	13,982	982	(NA)	(NA)
	Without well operations..	195	70	4,520	25,658	3,948	8,841	20,853	50,102	31,953	4,634	80,031	6,658	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells.....	35	9	647	3,096	570	1,217	2,732	6,190	2,624	890	8,915	789	(NA)	(NA)

See footnotes at end of table.



Table 2A.—General Statistics by Divisions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry or subindustry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuels and electricity, and contract work	Cost of purchased machinery in installed	Receipts for services and ship-ments	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Principal Type of Service and Division, Region, or State—Con.</u>														
	Mountain—Continued														
	Wyoming.....	68	25	1,605	8,622	1,399	2,778	7,125	17,422	9,033	1,905	26,232	2,128	1,795	22,075
	Drilling oil, gas, dry or service wells.....	57	24	1,504	8,197	1,311	2,615	6,740	16,525	8,816	1,681	24,973	2,049	(NA)	(NA)
	With well operations....	5	2	95	573	88	183	542	1,519	532	75	2,051	75	(NA)	(NA)
	Without well operations..	52	22	1,409	7,624	1,223	2,432	6,198	15,006	8,284	1,606	22,922	1,974	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells (without well operations).....	11	1	101	425	88	163	385	897	217	224	1,259	79	(NA)	(NA)
	Colorado.....	56	19	1,009	5,376	829	1,709	4,019	9,740	6,118	736	15,309	1,285	1,604	11,465
	Drilling oil, gas, dry or service wells.....	50	17	866	4,722	704	1,428	3,438	8,687	5,512	599	13,652	1,146	(NA)	(NA)
	With well operations....	7	3	162	647	139	250	509	1,043	691	130	1,695	169	(NA)	(NA)
	Without well operations..	43	14	704	4,075	565	1,178	2,929	7,644	4,821	469	11,957	977	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells (without well operations).....	6	2	143	654	125	281	581	1,053	606	137	1,657	139	(NA)	(NA)
	New Mexico.....	92	37	2,114	11,593	1,911	4,457	9,960	23,865	14,564	2,137	38,284	2,282	2,007	18,724
	Drilling oil, gas, dry or service wells.....	77	31	1,720	9,606	1,563	3,701	8,224	19,725	12,782	1,608	32,404	1,711	(NA)	(NA)
	With well operations....	18	11	493	2,845	442	1,086	2,508	6,104	3,706	659	9,759	710	(NA)	(NA)
	Without well operations..	59	20	1,227	6,761	1,121	2,615	5,716	13,621	9,076	949	22,645	1,001	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells.....	15	6	394	1,987	348	756	1,736	4,140	1,782	529	5,880	571	(NA)	(NA)
	Without well operations..	14	5	361	1,826	320	690	1,597	3,647	1,471	526	5,076	568	(NA)	(NA)
	Utah (Drilling oil, gas, dry or service wells; without well operations).....	16	9	857	5,334	754	2,009	4,448	10,238	8,086	1,427	17,331	2,420	<sup>2</sup> 148	<sup>2</sup> 1,052
	Montana and Idaho.....	32	5	361	2,007	320	665	1,678	4,090	1,806	190	5,772	314	711	6,158
	Drilling oil, gas, dry or service wells.....	28	5	350	1,965	311	648	1,648	3,990	1,787	190	5,653	314	(NA)	(NA)
	Pacific.....	99	33	2,673	16,402	2,298	4,411	13,227	27,708	14,838	3,454	42,100	3,900	5,237	47,068
	Drilling oil, gas, dry or service wells.....	89	30	2,388	14,798	2,058	3,972	11,930	25,453	13,972	3,418	39,052	3,791	(NA)	(NA)
	With well operations....	4	2	211	1,571	152	298	969	1,482	907	353	2,370	372	(NA)	(NA)
	Without well operations..	85	28	2,177	13,227	1,906	3,674	10,961	23,971	13,065	3,065	36,682	3,419	(NA)	(NA)
	Drilling in, spudding in, tailing in and reworking wells (without well operations).....	10	3	285	1,604	240	439	1,297	2,255	866	36	3,048	109	(NA)	(NA)
1382	OIL AND GAS EXPLORATION SERVICES, TOTAL.....	347	76	9,557	43,649	7,559	16,695	31,115	64,353	23,869	6,075	87,215	7,082	11,488	81,301
	<u>Division and State</u>														
	Northeast and East North Central	14	1	106	391	79	138	313	901	145	44	1,043	47	(NA)	(NA)
	West North Central.....	19	2	212	1,143	182	374	921	1,874	1,213	62	3,077	72	(NA)	(NA)
	Kansas.....	15	2	188	997	170	350	861	1,756	1,181	61	2,931	67	179	1,611
	East South Central.....	16	4	862	3,837	789	1,711	3,213	3,714	936	604	4,569	685	(NA)	(NA)
	Mississippi.....	13	4	847	3,781	775	1,685	3,166	3,573	860	604	4,357	680	<sup>3</sup> 36	<sup>3</sup> 257
	West South Central.....	210	56	7,364	33,084	5,635	12,363	22,478	48,044	15,905	4,361	63,094	5,216	(NA)	(NA)
	Louisiana.....	31	16	3,396	13,965	2,411	4,849	8,434	18,973	4,231	2,078	22,628	2,654	<sup>3</sup> 1,454	<sup>3</sup> 8,893
	Oklahoma.....	27	6	381	1,890	307	736	1,469	2,686	1,691	68	4,316	129	842	4,393
	Texas.....	149	34	3,581	17,201	2,913	6,768	12,554	26,228	9,919	2,215	35,929	2,433	6,597	47,812
	Mountain.....	68	10	810	4,071	703	1,726	3,266	8,167	4,793	899	12,902	957	(NA)	(NA)
	Wyoming.....	19	2	203	909	179	422	733	1,861	482	67	2,307	103	<sup>3</sup> 329	<sup>3</sup> 2,633
	New Mexico.....	21	7	415	2,308	355	913	1,777	4,475	3,579	679	8,041	692	<sup>3</sup> 69	<sup>3</sup> 850
	Utah.....	9	1	69	322	65	172	301	689	262	72	950	73	(NA)	(NA)
	Pacific.....	20	3	203	1,123	171	383	924	1,653	877	105	2,530	105	<sup>5</sup> 63	<sup>5</sup> 553

See footnotes at end of table.

Table 2A.—General Statistics by Divisions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry or subindustry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuels and electricity, and contract work	Cost of purchased machinery installed	Receipts for services and shipments	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Principal Type of Service and Division or State</u>														
	United States, total.....	347	76	9,557	43,649	7,559	16,695	31,115	64,353	23,869	6,075	87,215	7,082	11,488	81,301
	Geophysical exploration...	289	73	9,183	42,019	7,250	16,015	29,760	60,671	22,410	6,003	82,113	6,971	10,689	74,348
	Other exploration.....	58	3	374	1,630	309	680	1,355	3,682	1,459	72	5,102	111	799	6,953
	West North Central.....	19	2	212	1,143	182	374	921	1,874	1,213	62	3,077	72	(NA)	(NA)
	Geophysical exploration...	16	2	196	1,045	167	346	826	1,691	1,130	56	2,823	54	(NA)	(NA)
	West South Central.....	210	56	7,364	33,084	5,635	12,363	22,478	48,044	15,905	4,361	63,094	5,216	(NA)	(NA)
	Geophysical exploration...	182	54	7,164	32,195	5,477	11,968	21,813	46,045	15,243	4,331	60,452	5,167	(NA)	(NA)
	Other exploration.....	28	2	200	889	158	395	665	1,999	662	30	2,642	49	(NA)	(NA)
	Louisiana (Geophysical exploration).....	31	16	3,396	13,965	2,411	4,849	8,434	18,973	4,231	2,078	22,628	2,654	1,454	8,893
	Texas.....	149	34	3,581	17,201	2,913	6,768	12,554	26,228	9,919	2,215	35,929	2,433	6,597	47,812
	Geophysical exploration...	124	32	3,391	16,350	2,761	6,389	11,919	24,399	9,320	2,188	33,523	2,384	6,079	43,124
	Other exploration.....	25	2	190	851	152	379	635	1,829	599	27	2,406	49	518	4,688
	Pacific.....	20	3	203	1,123	171	383	924	1,653	877	105	2,530	105	<sup>5</sup> 63	<sup>5</sup> 553
	Geophysical exploration...	12	2	145	789	115	253	597	1,025	472	105	1,497	105	<sup>5</sup> 63	<sup>5</sup> 63
	Other exploration.....	8	1	58	334	56	130	327	628	405		1,033		(NA)	(NA)
1389	OIL AND GAS FIELD SERVICES, NEC, TOTAL.....	2,504	411	47,278	228,023	38,212	86,060	166,926	455,994	182,104	37,843	633,729	42,212	46,425	413,276
	<u>Division and State</u>														
	Northeast and North Central.....	498	33	3,261	12,536	2,959	6,182	11,138	23,241	8,250	1,676	31,331	1,836	(NA)	(NA)
	Michigan.....	18	1	98	375	89	196	332	656	167	15	823	15	(NA)	(NA)
	Kansas.....	227	15	1,483	5,704	1,358	2,884	5,107	11,006	3,773	938	14,668	1,049	<sup>6</sup> 1,607	<sup>6</sup> 10,443
	South Atlantic (West Virginia)..	37	...	129	381	114	176	324	869	464	45	1,355	23	<sup>7</sup> 226	<sup>7</sup> 1,159
	East South Central.....	60	16	937	3,064	852	1,708	2,823	5,711	2,488	528	8,222	505	(NA)	(NA)
	Mississippi.....	33	10	609	2,019	551	1,160	1,887	4,005	1,422	450	5,475	402	(NA)	(NA)
	West South Central.....	1,544	306	38,860	192,327	30,736	70,638	136,377	387,856	159,078	32,526	542,807	36,653	(NA)	(NA)
	Arkansas.....	38	2	271	907	241	481	816	1,863	487	70	2,344	76	(NA)	(NA)
	Louisiana.....	197	67	6,256	28,387	5,627	13,573	22,978	49,750	34,407	6,578	83,307	7,428	<sup>8</sup> 4,755	<sup>8</sup> 34,148
	Oklahoma.....	340	46	3,734	15,497	2,729	5,321	9,475	21,687	6,849	1,488	28,173	1,851	3,318	21,775
	Texas.....	969	191	28,599	147,536	22,139	51,263	103,108	314,556	117,335	24,390	428,983	27,298	28,251	286,127
	Mountain.....	214	34	2,174	9,671	1,935	4,235	8,240	19,149	5,336	2,089	24,411	2,163	(NA)	(NA)
	Wyoming.....	36	5	325	1,533	281	632	1,349	3,300	1,132	371	4,408	395	(NA)	(NA)
	Colorado.....	39	6	350	1,565	304	661	1,349	3,199	807	352	4,016	342	(NA)	(NA)
	New Mexico.....	103	18	1,125	4,688	1,016	2,139	3,945	9,604	2,312	1,000	11,874	1,042	(NA)	(NA)
	Utah.....	13	4	207	950	194	440	867	1,555	725	235	2,263	252	(NA)	(NA)
	Montana and Arizona.....	23	1	167	935	140	363	730	1,491	360	131	1,850	132	(NA)	(NA)
	Pacific (California).....	151	22	1,917	10,044	1,616	3,121	8,024	19,168	6,488	979	25,603	1,032	(NA)	(NA)
	<u>Type of Operation</u>														
	United States, total.....	2,504	411	47,278	228,023	38,212	86,060	166,926	455,994	182,104	37,843	633,729	42,212	46,425	413,276
	Well surveying and well logging and cementing wells <sup>9</sup> .....	199	33	12,081	74,857	8,180	20,782	45,186	167,391	55,019	10,133	220,829	11,714	10,468	145,686
	Building (erecting), repairing and dismantling rigs and derricks <sup>10</sup> .....	92	13	1,014	3,644	901	1,496	3,022	7,159	2,980	131	10,112	158	1,632	9,552
	Excavating slush pits and cellars (without well operations).....	62	5	654	2,934	610	1,323	2,664	5,881	2,147	645	7,925	748	620	5,610
	Running, cutting and pulling casing, tubes and rods.....	624	102	7,106	26,546	6,479	12,766	23,544	48,763	12,307	4,194	60,973	4,291	5,648	32,560
	With well operations....	49	7	480	1,765	448	896	1,593	3,412	1,106	488	4,452	554	(NA)	(NA)
	Without well operations..	575	95	6,626	24,781	6,031	11,870	21,951	45,351	11,201	3,706	56,521	3,737	(NA)	(NA)
	Perforating well casing (without well operations)	30	9	4,100	24,009	2,764	7,338	14,892	48,507	11,154	3,363	58,570	4,454	3,212	35,497
	Acidizing and other chemical treatment of wells <sup>11</sup>	41	10	3,705	22,988	2,457	6,899	15,398	44,668	38,122	7,577	82,186	8,181	2,702	36,330
	Cleaning out, bailing out and swabbing wells.....	350	53	3,888	15,485	3,576	7,510	13,787	29,734	6,848	2,376	36,297	2,661	5,968	40,918
	With well operations....	23	5	296	963	285	532	942	2,102	616	204	2,669	253	(NA)	(NA)
	Without well operations..	327	48	3,592	14,522	3,291	6,978	12,845	27,632	6,232	2,172	33,628	2,408	(NA)	(NA)

See footnotes at end of table.



Table 2A.—General Statistics by Divisions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry or subindustry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuels and electricity, and contract work	Cost of purchased machinery installed	Receipts for services and shipments	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Type of Operation—Continued</u>														
	Installing production equipment, such as well-head fittings, pumps and engines (without well operations).....	153	32	2,157	7,275	1,977	3,854	6,428	12,622	3,962	746	16,509	821	2,342	12,136
	Erecting, cleaning, re- pairing and dismantling lease tanks <sup>12</sup> .....	81	9	577	2,294	490	980	1,856	4,207	1,564	169	5,753	187	949	5,794
	Pumping wells, but not operating leases.....	82	2	270	1,151	214	440	826	2,118	314	15	2,422	25	( <sup>13</sup> )	( <sup>13</sup> )
	With well operations....	10	1	57	330	30	59	123	598	133	7	735	3	(NA)	(NA)
	Without well operations.	72	1	213	821	184	381	703	1,520	181	8	1,687	22	(NA)	(NA)
	Other oil and gas field services.....	790	143	11,726	46,840	10,564	22,672	39,323	84,944	47,687	8,494	132,153	8,972	<sup>13</sup> 12,884	<sup>13</sup> 89,193
	With well operations....	38	2	297	1,056	252	435	884	2,934	879	336	3,725	424	(NA)	(NA)
	Without well operations.	752	141	11,429	45,784	10,312	22,237	38,439	82,010	46,808	8,158	128,428	8,548	(NA)	(NA)
	Middle Atlantic:														
	Running, cutting and pull- ing casing, tubes and rods	22	1	69	235	62	115	204	464	190	73	655	72	(NA)	(NA)
	Cleaning out, bailing out, and swabbing wells.....	19	...	63	210	57	111	200	384	105	(D)	490	(D)	(NA)	(NA)
	Other oil and gas field services.....	28	...	70	220	61	116	180	464	78	4	531	15	(NA)	(NA)
	Pennsylvania:														
	Running, cutting and pull- ing casing, tubes and rods	17	1	59	209	53	102	180	400	183	71	584	70	(NA)	(NA)
	Other oil and gas field services.....	21	...	57	180	49	92	143	396	36	2	425	9	(NA)	(NA)
	East North Central:														
	Cementing wells (without well operations).....	5	1	86	429	83	165	406	676	754	28	1,434	24	(NA)	(NA)
	Running, cutting and pull- ing casing, tubes and rods	66	2	377	1,306	345	706	1,199	2,383	803	73	3,157	102	(NA)	(NA)
	Without well operations.	57	2	334	1,172	305	637	1,073	2,063	691	45	2,731	68	(NA)	(NA)
	Cleaning out, bailing out and swabbing wells.....	15	1	82	243	76	152	239	467	114	12	569	24	(NA)	(NA)
	Installing production equipment, such as well- head fittings, pumps and engines (without well operations).....	11	1	75	206	67	115	189	328	97	5	418	12	(NA)	(NA)
	Other oil and gas field services.....	36	4	256	785	236	393	735	1,532	403	27	1,929	33	(NA)	(NA)
	Ohio:														
	Running, cutting and pull- ing casing, tubes and rods	21	...	68	203	63	106	192	449	111	5	552	13	43	192
	Without well operations.	18	...	57	170	53	90	162	338	88	(D)	426	(D)	(NA)	(NA)
	Illinois:														
	Running, cutting and pull- ing casing, tubes and rods	27	1	201	715	185	391	657	1,314	549	58	1,841	80	116	781
	Without well operations.	23	1	172	623	158	341	570	1,130	494	(D)	1,602	(D)	(NA)	(NA)
	Cleaning out, bailing out, and swabbing wells (with- out well operations).....	8	1	57	167	53	111	165	267	54	11	312	20	318	2,188
	Other oil and gas field services.....	24	4	228	722	214	362	676	1,300	339	23	1,639	23	(NA)	(NA)
	Michigan.....	18	1	98	375	89	196	332	656	167	15	823	15	(NA)	(NA)
	Running, cutting and pull- ing casing, tubes and rods	8	1	65	242	59	137	220	358	85	8	442	9	55	312
	West North Central:														
	Well surveying and well logging (without well operations).....	6	1	64	274	57	128	270	810	171	179	1,058	102	(NA)	(NA)
	Cementing wells (without well operations).....	5	1	77	481	62	180	324	981	752	109	1,734	108	(NA)	(NA)
	Running, cutting and pull- ing casing, tubes and rods	99	9	887	3,101	807	1,662	2,879	5,601	1,543	457	7,179	422	(NA)	(NA)
	With well operations....	10	3	193	659	164	346	592	1,100	563	66	1,643	86	(NA)	(NA)
	Without well operations.	89	6	694	2,442	643	1,316	2,287	4,501	980	391	5,536	336	(NA)	(NA)

See footnotes at end of table.

Table 2A.—General Statistics by Divisions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry or subindustry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuels and electricity, and contract work	Cost of purchased machinery installed	Receipts for services and shipments	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Type of Operation—Continued</u>														
	West North Central—Continued														
	Cleaning out, bailing out and swabbing wells.....	19	1	141	561	129	254	508	1,149	264	101	1,371	143	(NA)	(NA)
	Installing production equipment, such as well-head fittings, pumps and engines (without well operations).....	16	4	156	537	146	279	498	878	351	61	1,210	80	(NA)	(NA)
	Other oil and gas field services.....	67	4	510	2,170	465	1,093	1,955	3,671	1,297	133	4,878	223	(NA)	(NA)
	North Dakota:														
	Other oil and gas field services (without well operations).....	8	2	225	1,075	207	531	958	1,448	765	(D)	2,182	(D)	(NA)	(NA)
	Kansas.....	227	15	1,483	5,704	1,358	2,884	5,107	11,006	3,773	938	14,668	1,049	<sup>6</sup> 1,607	<sup>6</sup> 10,443
	Well surveying and well logging and cementing wells.....	8	1	100	571	83	227	410	1,228	776	118	2,006	116	61	655
	Running, cutting and pulling casing, tubes and rods	93	8	790	2,783	739	1,526	2,596	4,984	1,417	357	6,414	344	760	4,428
	With well operations....	10	3	173	659	164	346	592	1,100	563	66	1,643	86	(NA)	(NA)
	Without well operations..	83	5	617	2,124	575	1,180	2,004	3,884	854	291	4,771	258	(NA)	(NA)
	Cleaning out, bailing out and swabbing wells.....	16	1	101	383	95	181	358	789	178	81	960	88	135	972
	Installing production equipment, such as well-head fittings, pumps and engines (without well operations).....	12	2	89	289	84	161	275	487	216	34	686	51	36	263
	Other oil and gas field services.....	55	2	260	1,000	235	520	907	2,032	513	133	2,486	192	(NA)	(NA)
	South Atlantic (West Virginia)..	37	...	129	381	114	176	324	869	464	45	1,355	23	<sup>7</sup> 226	<sup>7</sup> 1,159
	Other oil and gas field services.....	16	...	72	214	62	97	171	493	350	39	859	23	(NA)	(NA)
	East South Central.....	60	16	937	3,064	852	1,708	2,823	5,711	2,488	528	8,222	505	(NA)	(NA)
	Running, cutting and pulling casing, tubes and rods	17	5	376	1,117	354	739	1,060	2,074	697	230	2,817	184	(NA)	(NA)
	Cleaning out, bailing out and swabbing wells.....	10	3	117	322	112	189	319	736	148	221	883	222	(NA)	(NA)
	Other oil and gas field services.....	19	7	367	1,336	320	662	1,189	2,213	1,478	71	3,687	75	(NA)	(NA)
	Kentucky and Alabama:														
	Running, cutting and pulling casing, tubes and rods (without well operations)	9	2	102	307	101	162	304	414	176	15	588	17	(NA)	(NA)
	Other oil and gas field services.....	8	4	190	637	167	324	538	963	800	(D)	1,758	(D)	(NA)	(NA)
	Mississippi.....	33	10	609	2,019	551	1,160	1,887	4,005	1,422	450	5,475	402	(NA)	(NA)
	Running, cutting and pulling casing, tubes and rods	8	3	274	810	253	577	756	1,660	521	215	2,229	167	151	785
	Cleaning out, bailing out and swabbing wells (without well operations).....	6	3	105	296	100	170	293	683	138	221	820	222	(NA)	(NA)
	Other oil and gas field services (without well operations).....	11	3	177	699	153	338	651	1,250	678	(D)	1,929	(D)	(NA)	(NA)
	West South Central.....	1,544	306	38,860	192,327	30,736	70,638	136,377	387,856	159,078	32,526	542,807	36,653	(NA)	(NA)
	Well surveying and well logging and cementing wells.....	135	25	11,407	71,292	7,627	19,464	42,394	160,301	51,940	9,644	210,615	11,270	(NA)	(NA)
	Building (erecting), repairing and dismantling rigs and derricks.....	64	10	780	2,498	720	1,197	2,194	5,148	1,340	121	6,508	101	1,308	7,247
	Excavating slush pits and cellars (without well operations).....	38	5	533	2,282	499	1,031	2,056	4,295	1,619	369	5,830	453	(NA)	(NA)
	Running, cutting and pulling casing, tubes and rods	358	75	4,571	16,858	4,158	8,148	14,952	31,366	7,272	2,733	38,505	2,866	3,631	19,959
	With well operations....	17	4	200	696	193	393	668	1,482	258	301	1,753	288	(NA)	(NA)
	Without well operations..	341	71	4,371	16,162	3,965	7,755	14,284	29,884	7,014	2,432	36,752	2,578	(NA)	(NA)

See footnotes at end of table.



Table 2A.—General Statistics by Divisions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry or subindustry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuels and electric- ity, and contract work	Cost of pur- chased machin- ery in- stalled	Receipts for services and ship- ments	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Type of Operation—Continued</u>														
	West South Central—Continued														
	Perforating well casing (without well operations)	19	9	4,029	23,651	2,708	7,188	14,620	47,646	10,883	3,158	57,448	4,239	(NA)	(NA)
	Acidizing and other chem- ical treatment of wells..	24	8	3,562	22,183	2,371	6,684	14,936	42,527	37,380	7,392	79,361	7,938	(NA)	(NA)
	Cleaning out, bailing out and swabbing wells.....	228	38	2,852	10,935	2,626	5,483	9,780	21,043	4,951	1,621	25,758	1,857	4,078	27,198
	With well operations.....	17	5	275	910	265	501	890	1,974	580	204	2,509	249	(NA)	(NA)
	Without well operations..	211	33	2,577	10,025	2,361	4,982	8,890	19,069	4,371	1,417	23,249	1,608	(NA)	(NA)
	Installing production equipment, such as well- head fittings, pumps and engines (without well operations).....	107	23	1,676	5,446	1,548	3,002	4,854	9,607	3,033	554	12,617	577	(NA)	(NA)
	Erecting, cleaning, re- pairing and dismantling lease tanks.....	48	7	451	1,760	378	771	1,407	3,142	1,151	161	4,301	153	(NA)	(NA)
	Pumping wells, but not operating leases.....	39	2	176	835	129	274	533	1,336	207	9	1,541	11	(NA)	(NA)
	Other oil and gas field services.....	484	104	8,823	34,587	7,972	17,396	28,651	61,445	39,302	6,764	100,323	7,188	(NA)	(NA)
	With well operations.....	23	1	195	697	168	375	588	1,930	744	263	2,624	313	(NA)	(NA)
	Without well operations..	461	103	8,628	33,890	7,804	17,021	28,063	59,515	38,558	6,501	97,699	6,875	(NA)	(NA)
	Arkansas.....	38	2	271	907	241	481	816	1,863	487	70	2,344	76	(NA)	(NA)
	Running, cutting and pull- ing casing, tubes and rods (without well operations)	7	1	64	238	58	126	217	468	85	16	546	23	186	809
	Other oil and gas field services.....	13	1	120	389	106	223	344	762	262	(D)	1,040	(D)	(NA)	(NA)
	Louisiana.....	197	67	6,256	28,387	5,627	13,573	22,978	49,750	34,407	6,578	83,307	7,428	<sup>8</sup> 4,755	<sup>8</sup> 34,148
	Well surveying and well logging and cementing wells.....	20	6	501	2,912	406	933	1,995	5,156	2,097	395	6,848	800	263	2,430
	Building (erecting), re- pairing or dismantling rigs and derricks (with- out well operations).....	18	4	287	858	271	384	818	1,704	412	80	2,138	58	301	2,192
	Running, cutting and pull- ing casing, tubes and rods	41	13	585	2,177	550	1,080	1,989	4,067	1,030	552	5,073	576	527	2,645
	Cleaning out, bailing out and swabbing wells.....	28	5	256	1,054	244	564	1,004	2,082	509	137	2,557	171	104	562
	Other oil and gas field services.....	75	34	4,240	19,436	3,807	9,715	15,475	32,529	29,229	5,091	61,320	5,529	(NA)	(NA)
	Oklahoma.....	340	46	3,734	15,497	2,729	5,321	9,475	21,687	6,849	1,488	28,173	1,851	3,318	21,775
	Well surveying and well logging (without well operations).....	16	4	155	797	126	306	668	1,331	318	40	1,622	67	143	1,631
	Cementing wells.....	21	1	817	5,088	110	229	416	1,429	648	86	2,088	75		
	Building (erecting), re- pairing and dismantling rigs and derricks.....	6	2	68	191	59	81	159	424	146	3	566	7	132	757
	Excavating slush pits and cellars (without well operations).....	13	...	66	276	52	115	218	724	351	43	1,017	101	137	1,394
	Running, cutting and pull- ing casing, tubes and rods	90	16	895	3,145	824	1,583	2,827	5,896	1,480	449	7,279	546	690	3,439
	Acidizing and other chem- ical treatment of wells..	6	1	51	288	35	87	181	961	286	183	1,252	178	(NA)	(NA)
	Cleaning out, bailing out and swabbing wells.....	51	11	654	2,370	598	1,214	2,114	4,126	1,372	295	5,405	388	1,062	7,871
	Installing production equipment, such as well- head fittings, pumps and engines (without well operations).....	26	2	230	614	204	330	534	1,222	607	28	1,780	77	314	1,368
	Erecting, cleaning, re- pairing and dismantling lease tanks.....	16	...	74	293	68	139	238	687	139	29	792	63	132	852
	Other oil and gas field services.....	79	8	644	2,085	590	1,074	1,874	4,068	1,253	(D)	5,321	(D)	(NA)	(NA)
	Without well operations..	75	8	617	2,002	569	1,041	1,808	3,883	1,146	272	5,046	255	(NA)	(NA)

See footnotes at end of table.

Table 2A.—General Statistics by Divisions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry or subindustry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuels and electric-ity, and contract work	Cost of purchased machinery installed	Receipts for services and ship-ments	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Type of Operation—Continued</u>														
	West South Central—Continued														
	Texas.....	969	191	28,599	147,536	22,139	51,263	103,108	314,556	117,335	24,390	428,983	27,298	28,251	286,127
	Well surveying and well logging and cementing wells.....	74	14	9,922	62,435	6,974	17,974	39,258	152,224	48,844	9,109	199,863	10,314	9,235	134,445
	Building (erecting), re- pairing and dismantling rigs and derricks (with- out well operations).....	36	4	405	1,403	374	715	1,179	2,917	759	35	3,678	33	829	4,058
	Excavating slush pits and cellars (without well operations).....	21	4	429	1,826	410	852	1,662	2,902	1,153	326	4,029	352	202	1,758
	Running, cutting and pull- ing casing, tubes and rods	220	45	3,027	11,298	2,726	5,359	9,919	20,935	4,677	1,716	25,607	1,721	2,228	13,066
	With well operations....	10	4	147	558	142	299	531	1,178	184	266	1,371	257	(NA)	(NA)
	Without well operations..	210	41	2,880	10,740	2,584	5,060	9,388	19,757	4,493	1,450	24,236	1,464	(NA)	(NA)
	Perforating well casing (without well operations)	14	8	3,968	23,354	2,655	7,032	14,381	46,953	10,646	3,104	56,533	4,170	2,961	33,028
	Acidizing and other chem- ical treatment of wells..	18	7	3,511	21,895	2,336	6,597	14,755	41,566	37,094	7,209	78,109	7,760	2,611	34,987
	Cleaning out, bailing out and swabbing wells.....	145	22	1,939	7,522	1,757	3,655	6,581	14,649	3,029	1,187	17,583	1,282	2,835	18,325
	With well operations....	7	1	63	202	57	115	195	585	108	49	684	58	(NA)	(NA)
	Without well operations..	138	21	1,876	7,320	1,700	3,540	6,386	14,064	2,921	1,138	16,899	1,224	(NA)	(NA)
	Installing production equipment, such as well- head fittings, pumps and engines (without well operations).....	75	18	1,152	3,249	1,078	1,915	2,959	5,289	1,529	203	6,815	206	969	5,274
	Erecting, cleaning, re- pairing and dismantling lease tanks.....	24	6	289	1,159	256	540	984	1,919	881	132	2,843	89	399	1,865
	Pumping wells, but not operating leases.....	25	2	138	718	104	240	472	1,116	165	5	1,281	5	5,982	39,321
	Other oil and gas field services.....	317	61	3,819	12,677	3,469	6,384	10,958	24,086	8,558	1,364	32,642	1,366		
	With well operations....	15	1	134	528	119	269	443	1,520	536	260	2,051	265		
	Without well operations..	302	60	3,685	12,149	3,350	6,115	10,515	22,566	8,022	1,104	30,591	1,101	(NA)	(NA)
	Mountain.....	214	34	2,174	9,671	1,935	4,235	8,240	19,149	5,336	2,089	24,411	2,163	(NA)	(NA)
	Well surveying and well logging.....	12	1	87	366	71	143	310	709	132	25	821	45	(NA)	(NA)
	Excavating slush pits and cellars (without well operations).....	7	...	41	235	38	92	221	769	230	181	995	185	(NA)	(NA)
	Running, cutting and pull- ing casing, tubes and rods	37	8	473	2,096	430	903	1,807	3,793	1,022	531	4,785	561	(NA)	(NA)
	Without well operations..	34	8	465	2,061	422	886	1,772	3,725	990	531	4,685	561	(NA)	(NA)
	Cleaning out, bailing out and swabbing wells (with- out well operations).....	32	6	326	1,627	293	710	1,366	3,093	825	362	3,933	347	(NA)	(NA)
	Installing production equipment, such as well- head fittings, pumps and engines (without well operations).....	16	4	228	1,042	196	430	846	1,718	460	126	2,152	152	(NA)	(NA)
	Erecting, cleaning, re- pairing and dismantling lease tanks (without well operation).....	8	1	40	99	37	54	93	191	73	7	257	14	(NA)	(NA)
	Other oil and gas field services.....	78	14	886	3,791	792	1,712	3,244	7,740	2,243	756	9,979	760	(NA)	(NA)
	Wyoming.....	36	5	325	1,533	281	632	1,349	3,300	1,132	371	4,408	395	(NA)	(NA)
	Running, cutting and pull- ing casing, tubes and rods (without well operations)	6	2	90	553	88	216	541	936	337	119	1,278	114	69	632
	Cleaning out, bailing out and swabbing wells (with- out well operations).....	6	1	53	314	44	130	258	642	101	170	729	184	142	1,239
	Other oil and gas field services, nec.....	16	2	137	493	114	207	413	1,335	538	51	1,863	61	(NA)	(NA)

See footnotes at end of table.



Table 2A.—General Statistics by Divisions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry or subindustry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, purchased fuels and electricity, and contract work	Cost of purchased machinery installed	Receipts for services and shipments	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll	Number	Man-hours	Wages							
					(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)			(\$1,000)
	<u>Type of Operation—Continued</u>														
	Mountain—Continued														
	Colorado.....	39	6	350	1,565	304	661	1,349	3,199	807	352	4,016	342	(NA)	(NA)
	Well surveying and well logging (without well operations).....	6	1	59	242	48	93	219	439	58	13	489	21	(NA)	(NA)
	Running, cutting, and pulling casing, tubes and rods (without well operations)	6	1	73	227	68	109	205	447	76	64	504	83	(NA)	(NA)
	Installing production equipment, such as well-head fittings, pumps and engines (without well operations).....	3	2	70	337	68	160	322	579	116	46	696	45	(NA)	(NA)
	Other oil and gas field services (without well operations).....	11	1	54	293	38	89	187	748	188	174	960	150	(NA)	(NA)
	New Mexico.....	103	18	1,125	4,688	1,016	2,139	3,945	9,604	2,312	1,000	11,874	1,042	(NA)	(NA)
	Running, cutting, and pulling casing, tubes and rods	19	5	290	1,225	256	533	980	2,262	557	348	2,803	364	273	1,713
	Installing production equipment, such as well-head fittings, pumps and engines (without well operations).....	6	1	61	198	53	75	167	435	70	(D)	495	(D)	35	182
	Cleaning out, bailing out and swabbing wells (without well operations).....	17	3	160	660	148	319	553	1,338	357	83	1,724	54	226	1,353
	Other oil and gas field services (without well operations).....	42	8	534	2,317	487	1,072	2,000	4,765	1,113	507	5,861	524	(NA)	(NA)
	Utah.....	13	4	207	950	194	440	867	1,555	725	235	2,263	252	(NA)	(NA)
	Other oil and gas field services (without well operations).....	6	3	131	539	124	275	498	577	349	24	925	25	(NA)	(NA)
	Montana and Arizona.....	23	1	167	935	140	363	730	1,491	360	131	1,850	132	(NA)	(NA)
	Cleaning out, bailing out and swabbing wells (without well operations).....	5	1	57	345	50	132	290	514	118	(D)	632	(D)	(NA)	(NA)
	Pacific (California).....	151	22	1,917	10,044	1,616	3,121	8,024	19,168	6,488	979	25,603	1,032	(NA)	(NA)
	Well surveying and well logging and cementing wells (without well operations).....	19	2	203	1,164	158	392	887	2,437	795	58	3,205	85	546	4,643
	Building (erecting), repairing and dismantling rigs and derricks (without well operations).....	10	2	136	838	97	167	559	1,492	1,524	1	2,981	36	167	1,508
	Running, cutting and pulling casing, tubes and rods	18	2	361	1,810	313	481	1,420	2,936	720	97	3,669	84	314	2,625
	Cleaning out, bailing out and swabbing wells.....	20	4	282	1,495	259	568	1,289	2,743	411	35	3,143	46	623	5,045
	Other oil and gas field services (without well operations).....	62	10	742	3,737	656	1,203	3,198	7,386	2,536	700	9,967	655	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>General statistics for some States are not shown separately in this table in order to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such States and Alaska are shown below for 1958, with the number of establishments in each State (and in parentheses the number of employees or employment-size range):

SIC 1381, Drilling oil and gas wells: Missouri, 6 (19); Maryland, 1 (0-4); Virginia, 2 (20-49); Florida, 1 (0-4); Tennessee, 4 (10); Montana, 30 (250-499); Idaho, 2 (0-4); Washington, 2 (20-49); California, 97 (2,500 and over); and Alaska, 2 (20-49).

SIC 1382, Oil and gas exploration services: New York, 1 (0-4); Pennsylvania, 1 (0-4); Indiana, 2 (10-19); Illinois, 6 (37); Michigan, 4 (50-99); North Dakota, 2 (10-19); Nebraska, 2 (5-9); Kentucky, 1 (0-4); Alabama, 2 (10-19); Montana, 7 (50-99); Nevada, 1 (0-4); Washington, 1 (0-4); Oregon, 1 (0-4); California, 18 (100-249); and Alaska, 1 (0-4).

SIC 1389, Oil and gas field services, nec: New York, 15 (20-49); Pennsylvania, 65 (250-499); Indiana, 20 (50-99); Michigan, 18 (50-99); Missouri, 2 (5-9); North Dakota, 13 (250-499); South Dakota, 1 (0-4); Nebraska, 21 (100-249); Kentucky, 25 (250-499); Alabama, 2 (20-49); Montana, 21 (100-249); Arizona, 2 (5-9); and Alaska, 1 (0-4).

<sup>2</sup>Represents figures for Arizona and Utah.

<sup>3</sup>Represents geophysical exploration work only.

<sup>4</sup>Figures for Montana are included with those for Colorado.

<sup>5</sup>Represents geophysical exploration work in California only.

<sup>6</sup>Includes data for 2 establishments in North Dakota.

<sup>7</sup>Includes data for 3 establishments in Virginia and Florida and for geophysical exploration work, if any.

<sup>8</sup>Includes data for "other exploration" work, if any.

<sup>9</sup>Represents 139 establishments primarily engaged in well surveying and well logging without well operations and one with well operations; and 57 establishments primarily engaged in cementing wells without well operations and 2 with well operations.

<sup>10</sup>Represents 91 establishments without well operations and one with well operations.

<sup>11</sup>Represents 39 establishments without well operations and 2 with well operations.

<sup>12</sup>Represents 79 establishments without well operations and 2 with well operations.

<sup>13</sup>Figures for Pumping wells, but not operating leases are included with those for Other oil and gas field services.

Table 2B.—Selected Statistics for the Oil and Gas Field Services Industries, by County: 1958

State and county	County establishments, number <sup>1</sup>				All employees		Receipts for services and shipments <sup>1</sup> (\$1,000)
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Approximate payroll <sup>1</sup> (\$1,000)	
United States, total.....	18,498	17,206	1,224	68	113,989	558,827	1,623,695
Middle Atlantic, total.....	343	332	11	...	1,257	5,834	16,460
New York, total.....	69	69	...	...	194	772	2,298
Allegany.....	18	18	...	...	51	198	211
Other counties.....	36	36	...	...	111	432	1,603
Undistributed.....	15	15	...	...	32	142	484
Pennsylvania, total.....	274	263	11	...	1,063	5,062	14,162
Armstrong.....	23	23	...	...	92	429	892
Clearfield.....	9	6	3	...	163	761	3,714
Indiana.....	17	14	3	...	(2)	(2)	(2)
McKean.....	50	48	2	...	216	1,008	1,441
Other counties.....	127	124	3	...	2458	22,137	26,990
Undistributed.....	48	48	...	...	134	727	1,125
East North Central, total.....	1,429	1,390	39	...	4,432	18,567	58,517
Ohio, total.....	289	284	5	...	849	4,691	11,035
Coshocton.....	23	21	2	...	98	527	1,330
Holmes.....	29	29	...	...	78	419	893
Licking.....	18	17	1	...	60	322	576
Muskingum.....	19	18	1	...	78	419	1,690
Wayne.....	25	25	...	...	118	634	1,916
Other counties.....	145	145	...	...	324	1,748	3,580
Undistributed.....	30	29	1	...	93	622	1,050
Indiana, total.....	208	208	...	...	350	1,271	5,202
Gibson.....	43	43	...	...	(3)	(3)	(3)
Posey.....	39	39	...	...	85	292	1,174
Other counties.....	91	91	...	...	217	3776	3,442
Undistributed.....	35	35	...	...	48	203	586
Illinois, total.....	711	684	27	...	2,574	9,144	32,165
Clay.....	36	33	3	...	222	775	2,799
Coles.....	9	8	1	...			
Crawford.....	29	28	1	...			
Fayette.....	14	12	2	...			
Gallatin.....	33	33	...	...	83	290	1,836
Hamilton.....	31	29	2	...	4162	4566	42,239
Jasper.....	24	21	3	...	106	370	649
Jefferson.....	25	24	1	...	(4)	(4)	(4)
Lawrence.....	35	34	1	...	268	936	3,205
Marion.....	33	32	1	...			
Richland.....	26	25	1	...			
Wabash.....	39	38	1	...			
Wayne.....	48	47	1	...	117	409	2,157
White.....	62	57	5	...	372	1,299	4,871
Other counties.....	185	183	2	...	521	51,814	56,845
Undistributed.....	82	80	2	...	355	1,400	3,821
Michigan, total.....	221	214	7	...	659	3,461	10,115
Allegan.....	13	12	1	...	(6)	(6)	(6)
Hillsdale.....	8	6	2	...	68	350	1,000
Isabella.....	15	13	2	...	6179	6921	62,279
Other counties.....	169	168	1	...	315	1,621	4,988
Undistributed.....	16	15	1	...	97	569	1,848
West North Central, total.....	2,061	1,979	82	...	6,836	30,549	100,047
North Dakota, total.....	152	131	21	...	1,216	6,916	21,000
Billings.....	5	4	1	...	(7)	(7)	(7)
Bottineau.....	13	9	4	...	164	917	3,473
Burke.....	17	15	2	...	7201	71,123	72,823
McKenzie.....	18	11	7	...	330	1,845	6,121
Mountrail.....	8	7	1	...	286	1,599	4,778
Williams.....	25	21	4	...			
Other counties.....	41	41	...	...			
Undistributed.....	25	23	2	...			
Nebraska, total.....	180	175	5	...	620	2,547	12,523
Banner.....	33	33	...	...	67	271	1,769
Cheyenne.....	24	23	1	...	388	1,568	6,663
Kimball.....	60	58	2	...			
Other counties.....	46	46	...	...			
Undistributed.....	17	15	2	...			
Kansas, total.....	1,701	1,645	56	...	4,961	20,878	65,992
Barber.....	36	32	4	...	(8)	(8)	(8)
Barton.....	113	107	6	...	601	2,495	7,671
Butler.....	41	37	4	...	324	1,345	2,976
Cowley.....	43	40	3	...	214	889	2,881
Ellis.....	92	89	3	...	8480	81,993	86,506
Finney.....	15	14	1	...			
Graham.....	69	68	1	...			
				...			

See footnote at end of table.



Table 2B.—Selected Statistics for the Oil and Gas Field Services Industries, by County: 1958—Continued

State and county	County establishments, number <sup>1</sup>				All employees		Receipts for services and shipments <sup>1</sup>
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Approximate payroll <sup>1</sup> (\$1,000)	
West North Central—Continued							
Kansas—Continued							
Grant.....	6	5	1	...	58	240	222
Greenwood.....	29	27	2	...	176	731	2,288
Harper.....	26	25	1	...	312	1,295	4,627
McPherson.....	52	51	1	...			
Marion.....	36	35	1	...			
Meade.....	20	20	...	...			
Montgomery.....	14	12	2	...	39	162	1,139
Ness.....	23	22	1	...	100	415	508
Pratt.....	34	32	2	...	73	303	1,262
Rice.....	57	57	...	...	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )
Rooks.....	52	51	1	...	78	324	979
Russell.....	72	71	1	...	<sup>9</sup> 240	<sup>9</sup> 997	<sup>9</sup> 3,248
Sedgwick.....	45	45	...	...	207	859	2,725
Seward.....	23	22	1	...	113	469	1,191
Stafford.....	76	75	1	...	68	282	1,720
Sumner.....	36	36	...	...	182	756	2,724
Other counties.....	531	515	16	...			
Undistributed.....	160	157	3	...			
Missouri and South Dakota.....	28	28	...	...			
South Atlantic, total.....	326	316	10	...	1,521	5,613	13,655
West Virginia, total.....	271	261	10	...	1,333	4,784	11,386
Logan.....	22	22	...	...	135	478	1,023
Mingo.....	18	17	1	...	108	( <sup>10</sup> )	( <sup>10</sup> )
Nicholas.....	4	3	1	...	52	184	90
Ritchie.....	18	18	...	...	87	<sup>10</sup> 690	<sup>10</sup> 1,588
Upshur.....	9	8	1	...	57	202	530
Other counties.....	157	151	6	...	729	2,580	6,830
Undistributed.....	43	42	1	...	165	650	1,325
Florida.....	31	31	...	...	135	563	1,685
Maryland, Virginia and Georgia.....	24	24	...	...	53	266	584
East South Central, total.....	896	855	39	2	3,587	14,042	49,326
Kentucky, total.....	499	492	7	...	1,243	3,767	13,202
Daviess.....	42	42	...	...	( <sup>11</sup> )	( <sup>11</sup> )	( <sup>11</sup> )
Green.....	53	53	...	...	65	191	1,008
Henderson.....	39	37	2	...	162	478	2,379
Martin.....	12	12	...	...	<sup>11</sup> 190	<sup>11</sup> 560	<sup>11</sup> 2,117
Muhlenberg.....	28	28	...	...			
Pike.....	32	31	1	...			
Other counties.....	240	237	3	...			
Undistributed.....	53	52	1	...	508	1,516	4,866
Tennessee.....	9	9	...	...	179	612	1,671
Alabama, total.....	56	55	1	...	7	16	29
Mobile.....	15	15	...	...	215	748	2,825
Other counties.....	28	28	...	...	114	396	1,203
Undistributed.....	13	12	1	...	45	156	942
Mississippi, total.....	332	299	31	2	56	196	680
Adams.....	23	18	5	...	325	1,461	5,065
Forrest.....	15	15	...	...			
Jasper.....	10	9	1	...			
Jones.....	27	23	4	...			
Lincoln.....	22	18	4	...	84	378	1,031
Pike.....	14	14	...	...	299	1,344	3,246
Simpson.....	12	10	2	...	275	1,236	4,969
Smith.....	12	11	1	...			
Wayne.....	14	12	2	...			
Yazoo.....	10	8	2	...			
Other counties.....	127	124	3	...	112	503	2,448
Undistributed.....	46	37	7	2	<sup>12</sup> 201	<sup>12</sup> 903	<sup>12</sup> 3,455
West South Central, total.....	11,091	10,225	818	48	115	517	2,094
Arkansas, total.....	253	246	7	...	( <sup>12</sup> )	( <sup>12</sup> )	( <sup>12</sup> )
Columbia.....	35	34	1	...	469	2,105	8,366
Lafayette.....	26	26	...	...	242	1,064	2,596
Quachita.....	24	24	...	...	773	2,879	11,416
Union.....	51	49	2	...	<sup>13</sup> 236	<sup>13</sup> 870	<sup>13</sup> 2,558
Other counties.....	76	72	4	...	18	66	1,204
Undistributed.....	41	41	...	...	( <sup>13</sup> )	( <sup>13</sup> )	( <sup>13</sup> )
Louisiana, total.....	1,799	1,530	250	19	214	789	3,367
Acadia.....	71	63	8	...	228	841	3,266
Allen.....	24	24	...	...	77	313	1,021
Assumption.....	29	25	4	...	701	3,680	5,886
Beauregard.....	36	34	2	...			
Bossier.....	32	28	4	...			
Caddo.....	68	57	11	...			

See footnote at end of table.

Table 2B.—Selected Statistics for the Oil and Gas Field Services Industries, by County: 1958—Continued

State and county	County establishments, number <sup>1</sup>				All employees		Receipts for services and shipments <sup>1</sup> (\$1,000)
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Approximate payroll <sup>1</sup> (\$1,000)	
West South Central—Continued							
Louisiana—Continued							
Calcasieu.....	77	67	9	1	591	3,102	8,687
Cameron.....	68	61	7	...	141,025	145,379	145,217
Catahoula.....	23	22	1	...	109	572	1,076
Claiborne.....	33	30	3	...	(14)	(14)	(14)
Concordia.....	21	21	...	...	88	462	1,443
De Soto.....	27	27	...	...	119	625	4,261
East Baton Rouge.....	9	8	1	...	111	583	428
Evangeline.....	22	19	3	...	188	987	1,608
Iberia.....	55	46	7	2	916	4,809	13,817
Iberville.....	26	22	4	...	215	1,129	2,104
Jefferson.....	51	43	7	1	669	3,512	6,457
Jefferson Davis.....	47	42	5	...	278	1,459	3,657
Lafayette.....	51	45	6	...	1,740	9,132	29,317
Lafourche.....	101	77	24	...			
Lincoln.....	15	14	1	...	57	299	869
Orleans.....	19	16	3	...	217	1,139	1,887
Plaquemines.....	74	50	22	2	151,507	157,910	1523,600
Richland.....	8	7	1	...	59	310	440
St. Bernard.....	12	10	2	...	87	457	1,918
St. Charles.....	21	20	1	...	(15)	(15)	(15)
St. James.....	17	17	...	...	70	367	850
St. Landry.....	22	14	8	...	433	2,273	5,008
St. Martin.....	61	53	8	...	1,115	5,852	19,189
St. Mary.....	67	57	9	1			
Tensas.....	16	14	2	...	2,517	13,212	43,063
Terrebonne.....	94	62	30	2			
Union.....	18	18	...	...	109	572	1,908
Vermilion.....	76	63	13	...			
Webster.....	22	21	1	...	3,277	17,201	79,029
Offshore.....	74	46	21	7	402	2,108	7,044
Other parishes.....	165	161	4	...	2,442	14,102	30,697
Undistributed.....	147	126	18	3	13,014	56,063	149,674
Oklahoma, total.....	2,246	2,115	121	10			
Alfalfa.....	20	19	1	...	425	1,742	8,183
Beaver.....	113	110	3	...			
Beckham.....	16	14	1	1	308	1,263	2,864
Caddo.....	23	21	2	...			
Canadian.....	8	7	1	...	107	439	769
Carter.....	96	86	10	...	689	2,825	7,454
Cleveland.....	50	46	3	1	16,636	162,607	169,031
Creek.....	88	84	4	...	348	1,427	3,777
Ellis.....	18	18	...	...	(16)	(16)	(16)
Jarvin.....	96	84	11	1	793	3,251	10,821
Grady.....	26	26	...	...	(16)	(16)	(16)
Grant.....	35	33	2	...	103	422	1,507
Harper.....	35	33	2	...	313	1,283	3,325
Hughes.....	38	38	...	...	308	1,263	3,153
Key.....	48	47	1	...			
Kingfisher.....	8	7	1	...	82	336	1,452
Kiowa.....	14	13	1	...	52	213	660
Lincoln.....	72	71	1	...	175	718	2,354
Logan.....	55	53	1	1	(17)	(17)	(17)
Love.....	25	24	1	...	105	430	1,993
McClain.....	43	32	10	1	768	3,149	11,758
Noble.....	53	52	1	...			
Nowata.....	17	16	1	...	155	635	1,289
Okfuskee.....	36	36	...	...			
Oklahoma.....	80	68	10	2	1,154	4,690	9,878
Okmulgee.....	45	45	...	...			
Osage.....	88	82	5	1	542	2,223	6,218
Payne.....	61	57	4	...	228	935	2,431
Pontotoc.....	46	45	1	...	161	660	1,294
Pottawatomie.....	68	66	2	...	181	742	2,474
Seminole.....	81	75	6	...	17,780	173,198	179,806
Stephens.....	91	82	8	1	1,549	8,093	8,874
Texas.....	32	31	1	...	104	426	2,122
Tulsa.....	76	72	4	...	620	2,680	2,508
Washington.....	31	30	1	...			
Woodward.....	15	14	1	...	106	435	1,280
Other counties.....	278	274	4	...	527	2,160	9,605
Undistributed.....	221	204	16	1	1,695	7,818	22,794
Texas, total.....	6,793	6,334	440	19	43,904	216,637	617,970
Anderson.....	35	31	4	...	18,631	183,067	1811,439
Andrews.....	152	135	17	...	1,248	6,068	22,983
Aransas.....	15	15	..	...	382	1,857	6,940
Archer.....	101	101	...	...			
Atascosa.....	36	34	2	...	96	467	1,258
Baylor.....	38	37	1	...			
Bee.....	54	51	3	...	(18)	(18)	(18)

See footnote at end of table.



Table 2B.—Selected Statistics for the Oil and Gas Field Services Industries, by County: 1958—Continued

State and county	County establishments, number <sup>1</sup>				All employees		Receipts for services and shipments <sup>1</sup> (\$1,000)
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Approximate payroll <sup>1</sup> (\$1,000)	
West South Central—Continued							
Texas—Continued							
Bexar.....	15	15	...	...	71	356	397
Borden.....	41	39	2	...	(18)	(18)	(18)
Brazoria.....	66	60	6	...	427	2,076	4,572
Brooks.....	28	28	...	...	100	486	1,289
Brown.....	27	27	...	...	(19)	(19)	(19)
Caldwell.....	29	28	1	...	153	745	1,400
Calhoun.....	37	35	2	...	19,182	19,884	192,156
Callahan.....	61	60	1	...	116	564	1,548
Carson.....	31	31	...	...			
Cass.....	13	12	1	...	456	2,216	7,858
Chambers.....	72	69	3	...			
Cherokee.....	22	22	...	...	56	272	897
Clay.....	43	43	...	...			
Cochran.....	29	26	3	...	509	2,475	6,155
Coke.....	21	18	3	...			
Coleman.....	45	44	1	...	135	656	2,221
Colorado.....	38	36	2	...	99	481	2,423
Cooke.....	52	48	4	...	20,532	20,586	206,715
Crane.....	92	82	10	...	691	3,360	11,517
Crockett.....	49	48	1	...			
Culberson.....	25	25	...	...	192	933	3,559
Dallas.....	18	16	2	...	511	2,825	1,185
Dawson.....	30	29	1	...	(20)	(20)	(20)
DeWitt.....	36	34	2	...	136	661	2,361
Dimmit.....	18	17	1	...	62	301	542
Duval.....	56	55	1	...	(21)	(21)	(21)
Eastland.....	27	27	...	...	63	306	459
Ector.....	183	140	40	3	3,497	16,999	47,484
Fisher.....	36	36	...	...			
Fort Bend.....	45	43	2	...	801	3,894	10,598
Gaines.....	106	101	5	...			
Galveston.....	52	50	1	1	642	3,121	8,971
Garza.....	44	41	3	...	21,578	21,809	217,938
Goliad.....	12	12	...	...	83	403	1,140
Gray.....	53	47	6	...	442	2,149	5,766
Grayson.....	33	33	...	...	(21)	(21)	(21)
Gregg.....	53	51	2	...	298	1,449	3,123
Guadalupe.....	22	21	1	...	77	374	510
Hansford.....	22	19	3	...	458	2,226	5,733
Hardin.....	54	52	2	...			
Harris.....	169	144	23	2	2,338	11,767	16,863
Harrison.....	37	36	1	...	123	598	1,685
Haskell.....	43	43	...	...	102	496	1,854
Hidalgo.....	58	52	6	...	389	1,891	6,002
Hockley.....	43	39	4	...			
Houston.....	15	14	...	1	764	3,715	11,269
Howard.....	38	32	6	...			
Hutchinson.....	51	45	6	...	805	3,915	12,327
Jack.....	71	68	3	...			
Jackson.....	59	54	5	...	664	3,228	7,458
Jefferson.....	79	72	6	1			
Jim Wells.....	64	60	4	...	1,018	4,950	14,719
Jones.....	72	71	1	...			
Kenedy.....	9	8	1	...	44	214	1,072
Kleberg.....	23	22	1	...	22,146	22,710	222,719
Knox.....	42	40	2	...	130	632	1,232
Lavaca.....	25	24	1	...	(22)	(22)	(22)
Liberty.....	92	87	5	...	487	2,367	6,276
Lipscomb.....	20	19	1	...	105	510	1,637
Live Oak.....	57	56	1	...	23,267	23,1,298	232,922
Loving.....	28	28	...	...	84	408	1,294
Lubbock.....	10	9	1	...	(23)	(23)	(23)
McMullen.....	26	25	1	...	72	350	935
Marion.....	17	14	3	...			
Matagorda.....	55	54	1	...	423	2,055	6,528
Maverick.....	11	10	1	...			
Midland.....	89	83	6	...	1,062	5,137	9,446
Mitchell.....	21	21	...	...	268	1,302	4,618
Montague.....	52	52	...	...			
Montgomery.....	35	34	1	...	69	335	1,356
Newton.....	19	18	1	...	93	452	1,537
Nolan.....	55	52	3	...	196	954	3,241
Nueces.....	90	83	7	...	570	2,771	5,693
Ochiltree.....	27	24	3	...			
Orange.....	27	25	2	...	492	2,392	6,570
Panola.....	21	21	...	...	59	287	609
Pecos.....	112	105	7	...			
Polk.....	15	13	2	...	887	4,314	12,708
Reagan.....	38	37	1	...			

See footnote at end of table.

Table 2B.—Selected Statistics for the Oil and Gas Field Services Industries, by County: 1958—Continued

State and county	County establishments, number <sup>1</sup>				All employees		Receipts for services and shipments <sup>1</sup> (\$1,000)
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Approximate payroll <sup>1</sup> (\$1,000)	
West South Central—Continued							
Texas—Continued							
Reeves.....	36	36	...	...	318	1,545	5,371
Refugio.....	45	41	4	...			
Roberts.....	15	15	...	...			
Runnels.....	52	49	3	...			
Rusk.....	46	40	6	...	226	1,099	3,526
San Patricio.....	64	59	5	...	316	1,536	2,755
Schleicher.....	15	13	2	...	397	1,930	4,824
Scurry.....	81	71	10	...			
Shackelford.....	61	60	1	...			
Smith.....	38	36	2	...			
Starr.....	28	26	2	...	472	2,295	6,762
Stephens.....	43	41	2	...			
Stonewall.....	48	48	...	...			
Sutton.....	14	13	1	...			
Tarrant.....	17	15	2	...	61	297	1,234
Taylor.....	84	79	5	...	148	787	327
Terrell.....	19	19	...	...	24767	243,730	248,920
Terry.....	19	17	2	...			
Throckmorton.....	56	55	1	...			
Titus.....	10	9	1	...			
Tom Green.....	26	25	1	...	94	457	474
Tyler.....	17	17	...	...	674	3,279	10,059
Upton.....	68	63	5	...			
Van Zandt.....	7	7	...	...			
Victoria.....	56	52	4	...	369	1,793	4,261
Ward.....	77	69	8	...			
Webb.....	33	32	1	...			
Wharton.....	50	48	2	...			
Wheeler.....	20	19	1	...	(25)	(25)	(25)
Wichita.....	103	98	5	...			
Wilbarger.....	38	37	1	...			
Willacy.....	9	9	...	...			
Wilson.....	20	19	1	...	970	4,716	16,901
Winkler.....	99	81	18	...			
Wise.....	50	44	6	...			
Wood.....	29	27	2	...			
Yoakum.....	58	52	6	...	558	2,713	6,887
Young.....	106	103	3	...			
Offshore.....	25	20	5	...			
Other counties.....	610	602	8	...			
Undistributed.....	519	450	58	11	1,474	7,177	23,104
Mountain, total.....	1,787	1,640	142	5	7,314	37,947	135,085
Montana, total.....	188	182	6	...			
Dawson.....	12	11	1	...	225	1,229	4,416
Fallon.....	10	9	1	...			
Musselshell.....	12	11	1	...			
Roosevelt.....	10	10	...	...			
Sheridan.....	12	12	...	...	100	546	1,136
Other counties.....	93	93	...	...			
Undistributed.....	39	36	3	...			
Wyoming, total.....	428	401	26	1	268	1,497	3,646
Campbell.....	24	24	...	...	223	1,230	2,355
Carbon.....	19	18	1	...			
Converse.....	20	20	...	...	97	505	1,737
Crook.....	7	6	1	...	(26)	(26)	(26)
Fremont.....	40	38	2	...	60	312	1,111
Hot Springs.....	16	16	...	...	292	1,519	4,909
Johnson.....	15	14	1	...			
Natrona.....	64	60	3	1			
Park.....	25	21	4	...			
Sublette.....	18	15	3	...	169	879	3,508
Sweetwater.....	25	23	2	...	184	958	3,770
Washakie.....	21	17	4	...	136	708	2,726
Weston.....	21	20	1	...	26262	261,363	265,066
Other counties.....	60	60	...	...	111	578	2,188
Undistributed.....	53	49	4	...	149	775	2,728
Colorado, total.....	394	377	17	...	254	1,495	3,216
Denver.....	16	15	1	...	1,602	8,195	22,596
Logan.....	38	37	1	...			
Mesa.....	8	7	1	...	183	1,032	467
Moffat.....	23	21	2	...	27240	271,200	275,622
Montezuma.....	21	21	...	...	58	290	555
Morgan.....	35	33	2	...	82	410	1,249
Rio Blanco.....	20	16	4	...	75	375	1,119
Washington.....	31	30	1	...	346	1,730	4,195
Weld.....	25	25	...	...			
Other counties.....	114	112	2	...			
Undistributed.....	63	60	3	...			

See footnote at end of table.



Table 2B.—Selected Statistics for the Oil and Gas Field Services Industries, by County: 1958—Continued

State and county	County establishments, number <sup>1</sup>				All employees		Receipts for services and shipments <sup>1</sup>
	Total	With 0-19 employees	With 20-99 employees	With 100 employees and over	Number on March 15	Approximate payroll <sup>1</sup> (\$1,000)	
Mountain—Continued							
New Mexico, total.....	597	521	72	4	5,478	28,064	94,468
Chaves.....	33	33	...	...	94	476	1,873
Eddy.....	76	71	5	...	(28)	(28)	(28)
Lea.....	203	165	37	1	2,269	11,492	39,386
McKinley.....	9	8	1	...	28,469	28,410	289,759
Rio Arriba.....	41	35	6	...	324	1,641	5,963
San Juan.....	98	81	15	2	1,357	6,873	23,105
Other counties.....	54	52	2	...	202	1,021	4,669
Undistributed.....	83	76	6	1	763	4,151	9,713
Utah, total.....	155	134	21	...	1,322	8,006	26,428
Grand.....	9	7	2	...	60	357	1,413
San Juan.....	59	44	15	...	758	4,510	15,833
Uintah.....	17	16	1	...	130	774	3,821
Other counties.....	38	37	1	...	103	614	2,300
Undistributed.....	32	30	2	...	271	1,751	3,061
Idaho, Arizona, and Nevada.....	25	25	...	...	38	188	601
Pacific, total.....	565	469	83	13	7,080	41,138	83,097
California, total.....	551	455	83	13	7,052	40,983	82,522
Colusa.....	8	6	2	...	(29)	(29)	(29)
Fresno.....	27	21	6	...	213	1,226	2,288
Glenn.....	12	9	3	...	149	857	2,268
Kern.....	100	81	18	1	1,257	7,233	17,467
Kings.....	13	13	...	...	29,159	29,915	291,081
Los Angeles.....	105	78	19	8	2,619	15,150	23,019
Orange.....	45	40	5	...	343	1,974	4,307
Santa Barbara.....	25	24	1	...	109	627	1,171
Ventura.....	59	41	15	3	1,137	6,542	14,340
Offshore.....	12	7	5	...	194	1,116	3,528
Other counties.....	88	87	1	...	289	1,664	6,092
Undistributed.....	57	48	8	1	583	3,679	6,961
Washington and Oregon.....	14	14	...	...	28	155	575
Alaska, total.....	15	11	4	...	255	2,428	3,156
Third Judicial division.....	10	8	2	...	182	1,731	2,332
Fourth Judicial division.....	5	3	2	...	73	697	824

<sup>1</sup>Companies classified in the Oil and Gas Field Services Industries, in general, filed one report for all such services performed in the United States and Alaska. These reports were classified in the principal State in which the services were performed. However, these reports contained data on receipts for services performed for others, quantity of crude petroleum and natural gas shipped, and the number of employees on March 15, for each county in which services were performed or properties were operated. The figures for number of establishments shown in all other tables of this report represent the number of reports received. The figures for number of "county establishments" shown in this table represent the number of operations in separate counties. The "payroll" figures shown represent allocations by county, on the basis of the reported employment on March 15, plus payroll as reported by county for separately reported central offices and related facilities. "Receipts for services and shipments" represents reported receipts for services for each county plus an estimated figure for shipments of crude petroleum and natural gas based on the quantity figures reported by county.

<sup>2</sup>Figures for Indiana county are included with those for Other counties.

<sup>3</sup>Figures for Gibson county are included with those for Other counties.

<sup>4</sup>Figures for Jefferson county are included with those for Hamilton county.

<sup>5</sup>Figures for Wabash county are included with those for Other counties.

<sup>6</sup>Figures for Allegan county are included with those for Isabella county.

<sup>7</sup>Figures for Billings county are included with those for Burke county.

<sup>8</sup>Figures for Barber county are included with those for Ellis and Finney county.

<sup>9</sup>Figures for Pratt county are included with those for Rooks county.

<sup>10</sup>Figures for Mingo county are included with those for Ritchie county.

<sup>11</sup>Figures for Daviess county are included with those for Martin and Muhlenberg counties.

<sup>12</sup>Figures for Yapoo county are included with those for Smith county.

<sup>13</sup>Figures for Ouachita county are included with those for Columbia county.

<sup>14</sup>Figures for Bossier and Claiborne counties are included with those for Cameron county.

<sup>15</sup>Figures for St. Charles county are included with those for Plaquemines county.

<sup>16</sup>Figures for Ellis and Grady counties are included with those for Cleveland county.

<sup>17</sup>Figures for Logan county are included with those for Seminole county.

<sup>18</sup>Figures for Bee and Borden counties are included with those for Anderson county.

<sup>19</sup>Figures for Brown county are included with those for Calhoun county.

<sup>20</sup>Figures for Dawson county are included with those for Cooke county.

<sup>21</sup>Figures for Duval and Grayson counties are included with those for Garza county.

<sup>22</sup>Figures for Lavaca county are included with those for Kleberg county.

<sup>23</sup>Figures for Lubbock county are included with those for Live Oak county.

<sup>24</sup>Figures for Stonewall county are included with those for Taylor and Terrell county.

<sup>25</sup>Figures for Wheeler and Wilson counties are combined with those for Wilbarger county.

<sup>26</sup>Figures for Carbon county are included with those for Wishakie county.

<sup>27</sup>Figures for Washington county are included with those for Logan county.

<sup>28</sup>Figures for Eddy county are included with those for Lincoln and McKinley county.

<sup>29</sup>Figures for Colusa county are included with those for Kings county.

Table 3A.—Detailed Statistics for Industries.

(In general, contractors prepared one report for all oil and gas field services performed in the United States and Alaska. These reports were classified on

Item	138— Oil and gas field services indus- tries, total	1381—Drilling oil and gas wells industry							
		United States, total	Middle Atlantic		East North Central		West North Central		
			Division	Pennsyl- vania	Division	Ohio	Division	North Dakota	Kansas
1 Number of establishments, total.....	5,915	3,064	106	87	369	112	280	21	233
2 With 0-19 employees.....	4,608	2,244	92	74	327	106	236	12	202
3 With 20-99 employees.....	1,178	749	13	12	41	6	43	8	31
4 With 100 employees and over.....	129	71	1	1	1	...	1	1	...
5 Receipts for services and shipments.....\$1,000..	1,625,883	904,939	15,239	14,512	40,836	8,194	47,499	9,993	33,260
6 Actual services and shipments in the specified State by contractors classified in all States as percent of line 5.....	xxx	xxx	81	74	92	98	115	140	100
7 Value added in mining services.....\$1,000..	1,107,787	587,440	11,168	10,685	27,270	5,287	31,384	6,585	22,063
8 Number of persons engaged, total.....	122,298	62,617	1,209	1,110	4,158	944	3,678	540	2,864
9 Production and development workers.....	98,045	52,274	967	901	3,342	754	2,973	480	2,248
10 All other employees.....	18,201	7,137	95	90	377	54	383	48	322
11 Proprietors and firm members.....	6,052	3,206	147	119	439	136	322	12	294
12 Performing manual labor.....	2,926	1,346	74	57	194	76	117	4	110
13 Man-hours worked by production and development workers, total.....1,000..	212,225	109,470	2,094	1,946	6,046	1,480	6,099	1,166	4,486
14 Operating and maintaining wells.....do....	3,620	2,604	61	61	269	91	229	30	193
15 Drilling wells and rig building.....do....	106,590	103,625	1,874	1,738	5,469	1,376	5,699	1,094	4,175
16 Exploration work (except drilling).....do....	16,401	196	2	2	34	...	26	5	19
17 Other work.....do....	85,614	3,045	157	145	274	13	145	37	99
18 Principal expenses designated below, total.....\$1,000..	1,101,948	624,303	8,724	8,208	28,751	6,034	32,749	7,194	22,783
19 Wages of production and development workers.....do....	437,369	239,328	4,436	4,166	12,367	2,780	12,771	2,793	9,032
20 Salaries of all other employees.....do....	123,546	49,915	654	628	1,858	305	2,349	387	1,859
21 Supplies, gas purchased for gas lift and repressuring, and purchases for resale.....do....	403,463	241,491	2,659	2,473	10,741	2,096	12,129	2,919	8,038
22 Fuel purchased.....do....	69,927	40,942	660	636	1,910	198	2,229	604	1,416
23 Electric energy purchased.....do....	2,867	1,261	...	...	119	28	95	...	95
24 Subcontract work.....do....	64,776	51,366	315	305	1,756	627	3,176	491	2,343
25 Purchased machinery installed.....do....	128,375	84,457	1,472	1,409	2,626	390	4,131	1,170	2,395
26 Capital expenditures, total.....do....	151,312	102,018	1,035	996	3,586	432	5,645	1,776	3,090
27 Development and exploration of mineral properties.....do....	13,107	12,953	117	117	840	59	850	438	362
28 Other construction, new machinery and equipment, and used plant and equipment.....do....	138,205	89,065	918	879	2,746	373	4,795	1,338	2,728
29 Energy used <sup>2</sup> .....million kwh equivalent..	30,743	22,617	263	257	588	99	676	150	475
Fuels produced and used for fuel at same establishment:									
30 Crude petroleum.....1,000 barrels..	2	1	...	...	...	...	...	...	...
31 Natural gas.....million cu. ft..	436	433	...	...	24	...	17	...	17
Fuels purchased:									
32 Fuel oil.....1,000 barrels..	3,878	3,314	18	18	148	15	149	18	112
33 Gas.....million cu. ft..	41,724	39,378	343	343	251	139	257	...	257
34 Other fuels.....\$1,000..	36,346	18,013	493	471	944	105	1,289	476	740
35 Undistributed.....do....	7,519	422	12	10	28	9	31	1	27
36 Electric energy purchased.....million kwh..	181	99	...	...	10	2	8	...	8
37 Electric energy generated and used.....do....	303	301	(3)	(3)	3	3	2	(3)	1
Wells drilled and completed except those drilled on contract for others:									
38 Number drilled, total.....	2,267	2,184	18	18	312	42	403	83	274
39 Drilled on contract for reporting companies.....	218	187	...	...	30	7	8	...	6
40 Drilled by reporting companies for own account.....	2,049	1,997	18	18	282	35	395	83	268
41 Footage of wells drilled, total.....1,000 ft..	7,638	7,459	64	64	775	100	1,471	354	935
42 Drilled on contract for reporting companies....do....	748	660	...	...	70	11	25	...	19
43 Drilled by reporting companies for own account.....do....	6,890	6,799	64	64	705	89	1,446	354	916
44 Cost of drilling and equipping wells.....\$1,000..	53,339	52,177	415	415	4,942	723	8,208	3,090	4,328
Wells drilled and completed on contract for others:									
45 Number drilled.....	35,124	34,921	617	499	3,332	761	3,075	224	2,650
46 Footage of wells drilled on contract.....1,000 ft..	144,068	143,609	2,067	1,872	7,743	2,080	9,877	1,400	7,411
47 Costs borne by drilling contractors in drilling and equipping wells.....\$1,000..	619,360	617,756	8,864	8,355	25,058	5,745	29,339	7,407	19,335

See footnotes at end of table.



## by Selected Areas and Alaska: 1958

the basis of the principal kind of work and principal State in which the service was performed. For explanation of line captions, see Introduction)

1381—Drilling oil and gas wells industry—Continued												
South Atlantic		East South Central			West South Central					Mountain		
Division	West Virginia	Division	Kentucky	Mississippi	Division, total	Arkansas	Louisiana	Oklahoma	Texas	Division, total	Montana and Idaho	Wyoming
106	102	259	227	23	1,581	34	214	382	951	264	32	68
92	88	234	216	10	1,028	29	92	289	618	169	27	43
14	14	23	11	11	502	5	103	84	310	87	5	23
...	...	2	...	2	51	...	19	9	23	8	...	2
7,529	7,164	29,422	10,341	18,310	619,386	5,906	220,166	85,227	308,087	102,928	5,772	26,232
124	113	99	92	102	97	96	87	106	103	112	119	99
5,300	5,041	17,985	7,194	10,398	401,270	3,700	151,547	55,596	190,427	65,355	4,090	17,422
1,083	1,051	2,612	1,662	873	40,981	452	11,102	7,049	22,378	6,119	397	1,653
880	852	2,087	1,289	736	34,514	386	9,516	5,798	18,814	5,213	320	1,399
49	49	201	66	129	4,924	33	1,490	797	2,604	733	41	206
154	150	324	307	8	1,543	33	96	454	960	173	36	48
76	76	119	115	1	661	17	40	197	407	74	20	20
1,986	1,899	4,047	2,266	1,692	73,169	710	23,605	11,352	37,502	11,618	665	2,778
38	38	104	75	29	1,684	27	215	410	1,032	85	12	20
1,908	1,821	3,898	2,155	1,654	69,324	673	22,877	10,277	35,497	11,253	645	2,675
1	1	9	2	7	105	...	25	25	55	7	1	...
39	39	36	34	2	2,056	10	488	640	918	273	7	83
5,716	5,481	20,422	7,049	12,775	424,162	3,796	143,049	58,974	218,343	72,539	3,813	17,655
3,186	3,058	7,625	3,646	3,788	158,486	1,402	54,110	23,014	79,960	27,230	1,678	7,125
206	205	1,112	227	855	34,859	192	11,950	5,289	17,428	5,702	329	1,497
2,027	1,942	8,578	2,318	5,951	165,209	1,519	47,818	24,018	91,854	28,623	1,083	6,269
158	147	1,082	359	681	29,662	245	13,897	3,087	12,433	4,055	319	1,101
14	14	156	65	65	784	...	156	51	577	71	61	...
125	115	1,869	434	1,435	35,162	438	15,118	3,515	16,091	6,858	343	1,663
512	512	2,645	673	1,928	63,222	595	32,708	8,599	21,320	6,395	190	1,905
607	607	2,893	702	2,148	75,923	591	41,078	9,639	24,615	8,429	314	2,128
48	48	62	39	23	10,433	76	5,968	1,795	2,594	584	8	515
559	559	2,831	663	2,125	65,490	515	35,110	7,844	22,021	7,845	306	1,613
76	73	828	177	634	18,303	184	8,542	2,156	7,421	1,473	108	327
...	...	...	...	...	1	...	1	...	...	...	...	30
...	...	145	145	...	242	...	208	15	19	2	...	31
3	2	59	18	35	2,499	10	1,746	149	594	336	41	80
154	154	1,674	71	1,603	35,060	403	15,551	4,656	14,450	1,142	10	121
77	72	584	265	299	12,195	167	2,745	1,789	7,494	2,114	119	602
18	17	30	23	6	239	2	40	52	145	55	3	11
1	1	13	7	4	61	...	14	5	42	5	4	...
(3)	(3)	(3)	(3)	(3)	277	(3)	226	2	49	14	(3)	1
18	18	115	103	12	1,244	42	108	265	829	69	5	5
...	...	5	1	4	138	...	11	28	99	6	...	3
18	18	110	102	8	1,106	42	97	237	730	63	5	2
48	48	180	70	110	4,617	131	780	853	2,853	294	7	34
...	...	44	1	43	486	...	87	76	323	35	...	24
48	48	136	69	67	4,131	131	693	777	2,530	259	7	10
374	374	1,053	269	784	34,933	833	11,854	5,462	16,784	2,180	30	660
494	482	2,128	1,821	283	20,838	365	3,103	4,555	12,815	3,447	232	714
1,344	1,285	4,900	2,373	2,404	94,964	1,255	24,887	14,633	54,189	17,496	1,209	3,645
5,411	5,091	19,810	6,967	12,336	418,619	3,354	153,919	56,734	204,612	78,756	4,319	21,202

Table 3A.—Detailed Statistics for Industries, by

	Item	1381—Drilling oil and gas wells industry—Continued				1382—Oil and gas exploration services				
		Mountain—Continued				United States	South			
		Colorado	New Mexico	Utah	Pacific		Region	West South Central		
								Division	Louisiana	Texas
1	Number of establishments, total.....	56	92	16	99	347	226	210	31	149
2	With 0-19 employees.....	37	55	7	66	271	166	154	15	115
3	With 20-99 employees.....	19	34	6	26	57	42	40	9	25
4	With 100 employees and over.....	...	3	3	7	19	18	16	7	9
5	Receipts for services and shipments.....\$1,000..	15,309	38,284	17,331	42,100	87,215	67,663	63,094	22,628	35,929
6	Actual services and shipments in the specified State by contractors classified in all States as percent of line 5.....	96	130	100	99	xxx	82	76	51	83
7	Value added in mining services.....\$1,000..	9,740	23,865	10,238	27,708	64,353	51,758	48,044	18,973	26,228
8	Number of persons engaged, total.....	1,040	2,166	863	2,777	9,836	8,405	7,536	3,412	3,716
9	Production and development workers.....	829	1,911	754	2,298	7,559	6,424	5,635	2,411	2,913
10	All other employees.....	180	203	103	375	1,998	1,802	1,729	985	668
11	Proprietors and firm members.....	31	52	6	104	279	179	172	16	135
12	Performing manual labor.....	10	23	1	31	127	94	90	7	67
13	Man-hours worked by production and development workers, total.....1,000..	1,709	4,457	2,009	4,411	16,695	14,074	12,363	4,849	6,768
14	Operating and maintaining wells.....do....	9	44	...	134	1	...	...	...	...
15	Drilling wells and rig building.....do....	1,646	4,308	1,979	4,200	129	113	113	50	63
16	Exploration work (except drilling).....do....	...	3	3	12	15,941	13,351	11,982	4,716	6,524
17	Other work.....do....	54	102	27	65	624	610	268	83	181
18	Principal expenses designated below, total.....\$1,000..	11,494	26,157	13,420	31,240	67,518	53,762	48,989	18,196	27,120
19	Wages of production and development workers.....do....	4,019	9,960	4,448	13,227	31,115	25,691	22,478	8,434	12,554
20	Salaries of all other employees.....do....	1,357	1,633	886	3,175	12,534	11,230	10,606	5,531	4,647
21	Supplies, gas purchased for gas lift and repressuring, and purchases for resale.....do....	3,498	10,957	6,816	11,525	16,396	12,033	11,338	2,806	7,401
22	Fuel purchased.....do....	649	1,371	615	1,186	3,535	2,593	2,451	795	1,459
23	Electric energy purchased.....do....	10	...	...	22	295	240	211	32	179
24	Subcontract work.....do....	1,961	2,236	655	2,105	3,643	1,975	1,905	598	880
25	Purchased machinery installed.....do....	736	2,137	1,427	3,454	6,075	4,965	4,361	2,078	2,215
26	Capital expenditures, total.....do....	1,285	2,282	2,420	3,900	7,082	5,901	5,216	2,654	2,433
27	Development and exploration of mineral properties.....do....	32	29	...	19	...	...	...	...	...
28	Other construction, new machinery and equipment, and used plant and equipment.....do....	1,253	2,253	2,420	3,881	7,082	5,901	5,216	2,654	2,433
29	Energy used <sup>2</sup> .....million kwh equivalent..	241	535	262	410	949	685	649	212	388
	Fuels produced and used for fuel at same establishment:									
30	Crude petroleum.....1,000 barrels..	...	...	...	...	...	...	...	...	...
31	Natural gas.....million cu. ft..	...	2	...	3	...	...	...	...	...
	Fuels purchased:									
32	Fuel oil.....1,000 barrels..	65	62	88	102	29	26	26	12	14
33	Gas.....million cu. ft..	93	648	270	497	116	16	16	6	10
34	Other fuels.....\$1,000..	391	898	104	317	2,170	1,521	1,432	384	931
35	Undistributed.....do....	10	19	12	9	1,228	977	924	367	476
36	Electric energy purchased.....million kwh..	1	...	...	1	15	12	11	2	9
37	Electric energy generated and used.....do....	( <sup>3</sup> )	12	1	4	2	...	...	...	...
	Wells drilled and completed except those drilled on contract for others:									
38	Number drilled, total.....	24	35	...	5	8	3	2	...	...
39	Drilled on contract for reporting companies.....	...	3	...	...	2	1	...	...	...
40	Drilled by reporting companies for own account.....	24	32	...	5	6	2	2	...	...
41	Footage of wells drilled, total.....1,000 ft..	129	124	...	10	18	8	(D)	...	...
42	Drilled on contract for reporting companies.....do....	...	11	...	...	13	7	...	...	...
43	Drilled by reporting companies for own account.....do....	129	113	...	10	5	1	(D)	...	...
44	Cost of drilling and equipping wells.....\$1,000..	481	1,009	...	72	153	32	(D)	...	...
	Wells drilled and completed on contract for others:									
45	Number drilled.....	858	1,227	416	990	28	22	22	...	22
46	Footage of wells drilled on contract.....1,000 ft..	4,392	5,846	2,404	5,218	98	88	88	...	88
47	Costs borne by drilling contractors in drilling and equipping wells.....\$1,000..	10,910	27,960	14,365	31,899	493	459	459	...	459

See footnotes at end of table.



## Selected Areas and Alaska: 1958—Continued

1382—Oil and gas exploration services—Continued			1389—Oil and gas field services, nec industry										
			United States			Northeast and North Central				South			
West			Total	Survey, log, ce- ment ser- vices sub- industry	Miscellan- eous oil and gas field ser- vices sub- industry	Region		Kansas		Region			
Region	Mountain					Industry	Miscellan- eous oil and gas field ser- vices sub- industry	Industry	Miscellan- eous oil and gas field ser- vices sub- industry	Total	Survey, log, ce- ment ser- vices sub- industry	Miscellan- eous oil and gas field ser- vices sub- industry	
	Division	New Mexico											
88	68	21	2,504	199	2,305	498	473	227	219	1,641	139	1,502	1
75	58	14	2,093	166	1,927	465	445	212	205	1,319	114	1,205	2
12	9	6	372	27	345	32	27	15	14	288	19	269	3
1	1	1	39	6	33	1	1	...	...	34	6	28	4
15,432	12,902	8,041	633,729	220,829	412,900	31,331	25,619	14,668	12,662	552,384	210,804	341,580	5
163	165	117	xxx	xxx	xxx	217	166	210	162	83	74	88	6
9,820	8,167	4,475	455,994	167,391	288,603	23,241	19,657	11,006	9,778	394,436	160,454	233,982	7
1,084	871	437	49,845	12,235	37,610	3,849	3,480	1,754	1,651	41,558	11,522	30,036	8
874	703	355	38,212	8,180	30,032	2,959	2,658	1,358	1,275	31,702	7,641	24,061	9
139	107	60	9,066	3,901	5,165	302	249	125	108	8,224	3,781	4,443	10
71	61	22	2,567	154	2,413	588	573	271	268	1,632	100	1,532	11
24	21	10	1,453	80	1,373	350	341	151	150	931	57	874	12
2,109	1,726	913	86,060	20,782	65,278	6,182	5,469	2,884	2,657	72,522	19,503	53,019	13
...	...	...	1,015	2	1,013	295	294	153	153	650	1	649	14
15	13	4	2,836	25	2,811	203	201	94	94	2,240	21	2,219	15
2,080	1,712	908	264	21	243	6	3	...	...	112	18	94	16
14	1	1	81,945	20,734	61,211	5,678	4,971	2,637	2,410	69,520	19,463	50,057	17
10,864	8,864	5,887	410,127	129,876	280,251	20,786	16,863	9,477	8,130	357,802	123,364	234,438	18
4,190	3,266	1,777	166,926	45,186	121,740	11,138	9,696	5,107	4,697	139,524	42,485	97,039	19
1,004	805	531	61,097	29,671	31,426	1,398	965	597	436	56,248	28,903	27,345	20
3,759	3,019	2,191	145,576	48,443	97,133	5,945	4,248	2,756	2,087	130,982	46,006	84,976	21
751	649	317	25,450	5,905	19,545	1,932	1,600	896	789	21,385	5,414	15,971	22
29	22	8	1,311	502	809	15	8	...	...	1,238	495	743	23
1,131	1,103	1,063	9,767	169	9,598	358	346	121	121	8,425	61	8,364	24
1,004	899	679	37,843	10,133	27,710	1,676	1,295	938	820	33,099	9,644	23,455	25
1,062	957	692	42,212	11,714	30,498	1,836	1,535	1,049	933	37,181	11,270	25,911	26
...	...	...	154	...	154	4	4	2	2	147	...	147	27
1,062	957	692	42,058	11,714	30,344	1,832	1,531	1,047	931	37,034	11,270	25,764	28
207	183	79	7,177	1,671	5,506	532	436	240	214	6,043	1,531	4,512	29
...	...	...	1	...	1	1	1	...	...	...	...	...	30
...	...	...	3	...	3	...	...	...	...	...	...	...	31
3	1	(3)	535	(3)	535	12	12	4	4	486	(3)	486	32
70	70	...	2,230	715	1,515	174	117	63	63	1,864	647	1,217	33
546	537	288	16,163	5,118	11,045	1,011	739	465	401	13,987	4,761	9,226	34
171	95	28	5,869	605	5,264	817	770	394	351	4,307	485	3,822	35
1	1	(3)	67	21	46	...	...	...	...	65	21	44	36
2	...	...	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	37
3	2	2	75	1	74	23	23	5	5	52	1	51	38
...	...	...	29	...	29	15	15	...	...	14	...	14	39
3	2	2	46	1	45	8	8	5	5	38	1	37	40
3	(D)	(D)	161	(D)	(D)	(D)	(D)	7	7	103	(D)	(D)	41
...	...	...	75	...	75	44	44	...	...	31	...	31	42
3	(D)	(D)	86	(D)	(D)	(D)	(D)	7	7	72	(D)	(D)	43
27	(D)	(D)	1,009	(D)	(D)	234	(D)	46	46	775	(D)	(D)	44
6	4	3	175	18	157	47	31	21	7	107	2	105	45
10	5	4	361	14	347	76	66	12	7	227	4	223	46
34	20	19	1,111	46	1,065	221	193	19	12	641	18	623	47

Table 3A.—Detailed Statistics for Industries, by

Item		1389—Oil and gas field services, nec industry—Continued							
		South—Continued							
		East South Central		West South Central					
		Division	Mississippi	Division			Louisiana		
				Industry	Survey, log, cement services sub-industry	Miscellaneous oil and gas field services sub-industry	Industry	Survey, log, cement services sub-industry	Miscellaneous oil and gas field services sub-industry
1	Number of establishments, total.....	60	33	1,544	135	1,409	197	20	177
2	With 0-19 employees.....	44	23	1,238	110	1,128	130	14	116
3	With 20-99 employees.....	15	9	273	19	254	57	5	52
4	With 100 employees and over.....	1	1	33	6	27	10	1	9
5	Receipts for services and shipments.....\$1,000..	8,222	5,475	542,807	210,615	332,192	83,307	6,848	76,459
6	Actual services and shipments in the specified State by contractors classified in all States as percent of line 5.....	172	171	81	69	87	147	528	113
7	Value added in mining services.....\$1,000..	5,711	4,005	387,856	160,301	227,555	49,750	5,156	44,594
8	Number of persons engaged, total.....	998	647	40,394	11,503	28,891	6,412	510	5,902
9	Production and development workers.....	852	551	30,736	7,627	23,109	5,627	406	5,221
10	All other employees.....	85	58	8,124	3,780	4,344	629	95	534
11	Proprietors and firm members.....	61	38	1,534	96	1,438	156	9	147
12	Performing manual labor.....	31	19	879	54	825	57	4	53
13	Man-hours worked by production and development workers, total.....1,000..	1,708	1,160	70,638	19,464	51,174	13,573	933	12,640
14	Operating and maintaining wells.....do....	5	1	643	1	642	171	...	171
15	Drilling wells and rig building.....do....	110	42	2,114	21	2,093	613	21	592
16	Exploration work (except drilling).....do....	...	...	112	18	94	...	...	...
17	Other work.....do....	1,593	1,117	67,769	19,424	48,345	12,789	912	11,877
18	Principal expenses designated below, total.....\$1,000..	5,552	3,441	351,405	123,232	228,173	62,794	5,009	57,785
19	Wages of production and development workers.....do....	2,823	1,887	136,377	42,394	93,983	22,978	1,995	20,983
20	Salaries of all other employees.....do....	241	132	55,950	28,898	27,052	5,409	917	4,492
21	Supplies, gas purchased for gas lift and repressuring, and purchases for resale.....do....	1,939	1,058	128,699	45,979	82,720	26,888	1,951	24,937
22	Fuel purchased.....do....	439	285	20,855	5,405	15,450	2,799	135	2,664
23	Electric energy purchased.....do....	...	...	1,238	495	743	115	5	110
24	Subcontract work.....do....	110	79	8,286	61	8,225	4,605	6	4,599
25	Purchased machinery installed.....do....	528	450	32,526	9,644	22,882	6,578	395	6,183
26	Capital expenditures, total.....do....	505	402	36,653	11,270	25,383	7,428	800	6,628
27	Development and exploration of mineral properties.....do....	32	...	87	...	87	1	...	1
28	Other construction, new machinery and equipment, and used plant and equipment.....do....	473	402	36,566	11,270	25,296	7,427	800	6,627
29	Energy used <sup>2</sup> .....million kwh equivalent..	117	71	5,904	1,530	4,374	860	37	823
	Fuels produced and used for fuel at same establishment:								
30	Crude petroleum.....1,000 barrels..	...	...	2	...	2	...	...	...
31	Natural gas.....million cu. ft..	...	...	...	...	...	...	...	...
	Fuels purchased:								
32	Fuel oil.....1,000 barrels..	4	3	482	( <sup>3</sup> )	482	172	...	172
33	Gas.....million cu. ft..	21	...	1,843	647	1,196	451	10	441
34	Other fuels.....\$1,000..	155	82	13,804	4,759	9,045	1,270	64	1,206
35	Undistributed.....do....	260	182	3,985	479	3,506	415	70	345
36	Electric energy purchased.....million kwh..	...	...	65	21	44	5	( <sup>3</sup> )	4
37	Electric energy generated and used.....do....	...	...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	...	...	...
	Wells drilled and completed except those drilled on contract for others:								
38	Number drilled, total.....	5	...	44	1	43	...	...	...
39	Drilled on contract for reporting companies.....	1	...	13	...	13	...	...	...
40	Drilled by reporting companies for own account.....	4	...	31	1	30	...	...	...
41	Footage of wells drilled, total.....1,000 ft..	7	...	93	(D)	(D)	...	...	...
42	Drilled on contract for reporting companies....do....	1	...	30	...	30	...	...	...
43	Drilled by reporting companies for own account.....do....	6	...	63	(D)	(D)	...	...	...
44	Cost of drilling and equipping wells.....\$1,000..	30	...	711	(D)	(D)	...	...	...
	Wells drilled and completed on contract for others:								
45	Number drilled.....	7	...	100	2	98	36	...	36
46	Footage of wells drilled on contract.....1,000 ft..	4	...	223	4	219	78	...	78
47	Costs borne by drilling contractors in drilling and equipping wells.....\$1,000..	11	...	630	18	612	193	...	193

D Withheld to avoid disclosing data for individual companies.

<sup>2</sup>Figures for subcontract work are included with those for supplies, gas purchased for gas lift and repressuring, and purchases for resale.



## Selected Areas and Alaska: 1958-Continued

1389—Oil and gas field services, nec industry—Continued												
South—Continued					Mountain				Pacific (California)		138—Oil and gas field services industries, Alaska	
West South Central—Continued												
Oklahoma		Texas			Division		New Mexico		Industry	Miscellaneous oil and gas field services sub-industry		
Industry	Miscellaneous oil and gas field services sub-industry	Industry	Survey, log, cement, services sub-industry	Miscellaneous oil and gas field services sub-industry	Industry	Miscellaneous oil and gas field services sub-industry	Industry	Miscellaneous oil and gas field services sub-industry				
340	303	969	74	895	214	198	103	97	151	132	4	1
294	262	778	60	718	180	165	85	79	129	112	3	2
46	41	168	9	159	34	33	18	18	18	16	1	3
...	...	23	5	18	...	...	...	...	4	4	...	4
28,173	24,463	428,983	199,863	229,120	24,411	23,303	11,874	11,543	25,603	22,398	968	5
190	150	58	39	71	262	192	302	226	149	122	326	6
21,687	18,927	314,556	152,224	162,332	19,149	18,233	9,604	9,323	19,168	16,731	733	7
4,076	3,074	29,587	9,975	19,612	2,376	2,263	1,235	1,213	2,062	1,831	35	8
2,729	2,493	22,139	6,974	15,165	1,935	1,855	1,016	1,001	1,616	1,458	35	9
1,005	269	6,460	2,948	3,512	239	217	109	108	301	256	...	10
342	312	988	53	935	202	191	110	104	145	117	...	11
178	160	625	32	593	110	101	57	51	62	57	...	12
5,321	4,786	51,263	17,974	33,289	4,235	4,061	2,139	2,103	3,121	2,729	75	13
83	83	356	...	356	51	51	20	20	19	19	...	14
325	325	1,162	...	1,162	84	82	7	7	309	309	71	15
3	3	109	18	91	146	146	...	...	...	...	4	16
4,910	4,375	49,636	17,956	31,680	3,954	3,782	2,112	2,076	2,793	2,401	...	17
22,346	15,495	264,871	111,279	153,592	15,007	14,377	7,000	6,863	16,532	14,573	702	18
9,475	8,391	103,108	39,258	63,850	8,240	7,868	3,945	3,883	8,024	7,137	340	19
6,022	1,221	44,428	23,177	21,251	1,431	1,373	743	740	2,020	1,743	...	20
4,675	4,006	96,863	43,343	53,520	3,699	3,544	1,503	1,456	4,950	4,365	1318	21
1,681	1,399	16,242	4,978	11,264	1,318	1,289	663	651	815	685	44	22
...	...	1,123	490	633	8	8	...	...	50	50	...	23
493	478	3,107	33	3,074	311	295	146	133	673	593	(1)	24
1,488	1,362	24,390	9,109	15,281	2,089	2,039	1,000	998	979	921	44	25
1,851	1,709	27,298	10,314	16,984	2,163	2,105	1,042	1,018	1,032	947	171	26
18	18	50	...	50	3	3	1	1	...	...	...	27
1,833	1,691	27,248	10,314	16,934	2,160	2,102	1,041	1,017	1,032	947	171	28
439	368	4,574	1,420	3,155	380	370	185	183	222	190	13	29
1	1	...	...	...	...	...	...	...	...	...	...	30
...	...	...	...	...	...	...	...	...	3	3	...	31
14	14	296	(3)	296	28	28	12	12	9	9	7	32
41	41	1,351	637	714	137	127	64	64	55	54	...	33
851	738	11,634	4,571	7,063	728	722	355	355	437	358	...	34
749	580	2,736	240	2,496	433	411	226	214	312	261	2	35
...	...	61	21	40	(3)	(3)	...	...	2	2	...	36
...	...	(3)	(3)	(3)	...	...	...	...	(3)	(3)	(3)	37
13	13	28	...	28	...	...	...	...	...	...	...	38
1	1	10	...	10	...	...	...	...	...	...	...	39
12	12	18	...	18	...	...	...	...	...	...	...	40
23	23	65	...	65	...	...	...	...	...	...	...	41
1	1	24	...	24	...	...	...	...	...	...	...	42
22	22	41	...	41	...	...	...	...	...	...	...	43
111	111	565	...	565	...	...	...	...	...	...	...	44
50	50	14	2	12	13	13	...	...	8	8	2	45
87	87	58	4	54	28	28	...	...	30	30	26	46
269	269	168	18	150	140	140	...	...	109	109	295	47

<sup>2</sup>Excludes fuels furnished without charge by oil and gas companies for whom work was performed.<sup>3</sup>Less than one-half of the unit of measure specified.

Table 3B.—Detailed Statistics for Industries in the United States,

(In general, contractors prepared one report for all oil and gas field services performed in the United States and Alaska. These

Item	138— Oil and gas field services indus- tries, total	1381—Drilling oil and gas wells industry							1382—Oil and gas explo- ration services industry		
		Total	Drilling oil, gas, dry, and service wells (producing establishments only)			Drilling in, spudding in, tailing in, and reworking wells			Total	Geo- physical explo- ration	Other explo- ration
			Total	With well opera- tions	Without well opera- tions	Total	With well opera- tions	Without well opera- tions			
1 Number of establishments, total.....	5,915	3,064	2,518	525	1,993	546	67	479	347	289	58
2 With 0-19 employees.....	4,608	2,244	1,796	289	1,507	448	50	398	271	216	55
3 With 20-99 employees.....	1,178	749	657	221	436	92	17	75	57	54	3
4 With 100 employees and over.....	129	71	65	15	50	6	...	6	19	19	...
5 Receipts for services and ship- ments, total.....\$1,000..	1,625,883	904,939	842,081	229,432	612,649	62,858	9,175	53,683	87,215	82,113	5,102
6 Geophysical exploration.....do....	78,460	79	78	...	78	1	...	1	78,362	(D)	(D)
7 Other exploration.....do....	5,801	(D)	(D)	...	(D)	...	...	...	(D)	(D)	4,973
8 Well surveying and well logging.....do....	99,518	135	(D)	(D)	122	(D)	...	(D)	1,156	1,605	12
9 Drilling oil, gas, dry, and service wells.....do....	789,396	786,392	776,177	177,761	598,416	10,215	315	9,900	461	...	...
10 Drilling in, spudding in, tailing in, and reworking wells.....do....	60,745	56,117	8,422	1,825	6,597	47,695	7,106	40,589	1	1	...
11 Building (erecting), repairing, and dismantling rigs and derricks.....do....	10,095	650	618	(D)	(D)	32	...	32	...	...	...
12 Excavating slush pits and cellars.....do....	8,694	(D)	(D)	(D)	166	...	...	...	(D)	...	(D)
13 Running, cutting, and pulling casing, tubes, and rods.....do....	54,706	1,383	834	57	777	549	(D)	(D)	...	...	...
14 Cementing wells.....do....	81,663	305	305	11	294	...	...	...	...	...	...
15 Perforating well casing.....do....	39,186	255	255	2	253	...	...	...	...	...	...
16 Acidizing and other chemical treatment of wells.....do....	69,437	396	394	8	386	2	...	2	...	...	...
17 Cleaning out, bailing out, and swabbing wells.....do....	38,740	2,550	1,056	157	899	1,494	82	1,412	...	...	...
18 Installing production equipment, such as wellhead fittings, pumps, and engines.....do....	16,393	607	402	143	259	205	(D)	(D)	...	...	...
19 Erecting, cleaning, repairing, and dismantling lease tanks.....do....	6,583	51	46	(D)	(D)	5	(D)	(D)	...	...	...
20 Pumping wells but not operating leases.....do....	2,260	330	276	161	115	54	15	39	...	...	17
21 Other oil and gas field services.....do....	142,511	(D)	(D)	(D)	541	159	5	154	(D)	(D)	(D)
22 Oil and gas field machine-shop work.....do....	605	239	167	(D)	(D)	72	...	72	...	...	...
23 Hauling oil and gas field supplies and equipment.....do....	4,817	1,675	1,199	355	844	476	(D)	(D)	...	...	...
24 Crude petroleum shipped.....do....	43,619	42,027	40,623	40,623	...	1,404	1,404	...	24	(D)	(D)
25 Natural gas shipped.....do....	7,817	7,488	7,338	7,338	...	150	150	...	...	...	...
26 Products purchased and resold without further processing.....do....	61,352	2,218	1,884	458	1,426	334	27	307	1,107	(D)	(D)
27 Miscellaneous receipts and services.....do....	3,485	825	824	(D)	(D)	1	...	1	330	(D)	(D)
28 Value added in mining services.....do....	1,107,787	587,440	539,108	149,891	389,217	48,332	6,806	41,526	64,353	60,671	3,682
29 Number of persons engaged, total.....	122,298	62,617	55,217	14,407	40,810	7,400	1,030	6,370	9,836	9,410	426
30 Production and development workers, average for year.....	98,045	52,274	46,239	12,076	34,163	6,035	855	5,180	7,559	7,250	309
31 March.....	96,014	49,640	43,873	11,481	32,392	5,767	815	4,952	7,970	7,630	340
32 May.....	97,274	51,037	45,065	11,811	33,254	5,972	821	5,151	7,698	7,354	344
33 August.....	99,051	53,007	46,867	12,362	34,505	6,140	928	5,212	7,468	7,192	276
34 November.....	100,846	55,282	48,954	12,717	36,237	6,328	881	5,447	7,230	6,948	282
35 All other employees.....	18,201	7,137	6,474	1,790	4,684	663	90	573	1,998	1,933	65
36 Proprietors and firm members.....	6,052	3,206	2,504	541	1,963	702	85	617	279	227	52
37 Performing manual labor.....	2,926	1,346	990	260	730	356	44	312	127	98	29
38 Man-hours worked by production and development workers, total.....1,000..	212,225	109,470	98,073	24,822	73,251	11,397	1,729	9,668	16,695	16,015	680
39 Operating and maintaining wells.....do....	3,620	2,604	2,155	1,909	246	449	228	221	1	...	1
40 Drilling wells and rig building.....do....	106,590	103,625	93,691	22,262	71,429	9,934	1,387	8,547	129	119	10
41 Exploration work (except drilling).....do....	16,401	196	180	82	98	16	16	...	15,941	15,281	660
42 Other work.....do....	85,614	3,045	2,047	569	1,478	998	98	900	624	615	9
43 Principal expenses designated below, total.....\$1,000..	1,101,948	624,303	583,009	152,431	430,578	41,294	5,791	35,503	67,518	64,429	3,089
44 Wages of production and develop- ment workers.....do....	437,369	239,328	216,320	52,960	163,360	23,008	2,922	20,086	31,115	29,760	1,355
45 Salaries of all other employees.....do....	123,546	49,915	46,650	11,559	35,091	3,265	434	2,831	12,534	12,259	275
46 Supplies.....do....	361,665	239,403	229,688	63,898	165,790	9,715	1,451	8,264	15,294	14,321	973
47 Products purchased for resale.....do....	41,748	2,078	1,783	449	1,334	295	26	269	1,102	1,096	6
48 Gas purchased for gas lift and repressuring <sup>1</sup> .....do....	50	10	10	5	5	...	...	...	...	...	...
49 Fuel purchased.....do....	69,927	40,942	38,262	9,581	28,681	2,680	420	2,260	3,535	3,217	318
50 Electric energy purchased.....do....	2,867	1,261	1,167	371	796	94	24	70	295	249	46
51 Subcontract work.....do....	64,776	51,366	49,129	13,608	35,521	2,237	514	1,723	3,643	3,527	116
52 Purchased machinery installed.....do....	128,375	84,457	79,521	24,717	54,804	4,936	674	4,262	6,075	6,003	72

See footnotes at end of table.



## by Principal Types of Service: 1958

reports were classified on the basis of the principal kind of work performed. For explanation of line captions, see Introduction)

1389—Oil and gas field services, nec. industry												
Total	Well surveying, well logging, and cementing wells	Building (erecting), repairing, and dismantling rigs and derricks	Excavating slush pits and cellars	Running, cutting, and pulling casing, tubes, and rods	Perforating well casing	Acidizing and other chemical treatment of wells	Cleaning out, bailing out, and swabbing wells	Installing production equipment	Erecting, cleaning, repairing, and dismantling lease tanks	Pumping wells but not operating leases	Other oil and gas field services, nec.	
2,504	199	92	62	624	30	41	350	153	81	82	790	1
2,093	166	79	57	522	21	31	297	121	72	80	647	2
372	27	12	4	97	5	6	51	29	9	2	130	3
39	6	1	1	5	4	4	2	3	...	...	13	4
633,729	220,829	10,112	7,925	60,973	58,570	82,186	36,297	16,509	5,753	2,422	132,153	5
19	...	...	2	...	...	...	10	...	1	...	6	6
122	(D)	(D)	...	...	...	...	...	...	...	(D)	2	7
98,227	79,984	...	...	(D)	16,798	1,097	(D)	...	...	...	(D)	8
2,543	498	...	35	470	...	...	316	...	...	119	1,105	9
4,627	(D)	...	57	3,319	...	(D)	862	10	...	...	282	10
9,445	...	7,653	39	5	...	...	20	(D)	...	...	1,631	11
8,465	...	(D)	6,168	136	...	...	261	(D)	...	...	1,628	12
53,323	2	...	...	45,336	(D)	...	4,158	209	(D)	...	342	13
81,358	70,377	...	...	(D)	...	12,503	(D)	(D)	...	...	(D)	14
38,931	6,329	...	...	2	30,588	...	8	...	...	...	...	15
69,041	(D)	...	...	(D)	...	63,554	35	...	...	...	79	16
36,190	(D)	...	40	7,000	(D)	23	28,484	26	149	...	310	17
15,786	(D)	36	37	703	...	(D)	396	13,276	384	...	933	18
6,532	...	...	(D)	237	...	(D)	198	1,249	4,033	...	756	19
1,913	...	...	...	...	...	...	6	(D)	...	1,868	(D)	20
141,445	(D)	63	446	962	6,011	405	723	628	290	(D)	120,028	21
366	...	...	...	66	5	10	27	(D)	(D)	...	(D)	22
3,142	90	362	167	268	...	9	184	290	293	...	1,479	23
1,568	24	(D)	...	340	...	(D)	407	...	(D)	148	554	24
329	...	...	...	25	...	...	2	...	...	50	252	25
58,027	(D)	(D)	132	(D)	(D)	4,163	358	141	100	...	2,278	26
2,330	130	(D)	(D)	(D)	...	(D)	...	51	(D)	(D)	155	27
455,994	167,391	7,159	5,881	48,763	48,507	44,668	29,734	12,622	4,207	2,118	84,944	28
49,845	12,235	1,109	733	7,843	4,115	3,722	4,289	2,308	664	351	12,476	29
38,212	8,180	901	610	6,479	2,764	2,457	3,576	1,977	490	214	10,564	30
38,404	8,722	925	585	6,367	2,926	2,544	3,491	2,021	487	240	10,096	31
38,539	8,340	951	668	6,481	2,781	2,440	3,617	2,008	518	216	10,519	32
38,576	7,951	945	667	6,627	2,793	2,444	3,669	2,024	498	213	10,745	33
38,334	7,818	905	545	6,780	2,563	2,422	3,701	1,944	504	210	10,942	34
9,066	3,901	113	44	627	1,336	1,248	312	180	87	56	1,162	35
2,567	154	95	79	737	15	17	401	151	87	81	750	36
1,453	80	42	50	428	9	15	202	105	49	50	423	37
86,060	20,782	1,496	1,323	12,766	7,338	6,899	7,510	3,854	980	440	22,672	38
1,015	2	2	3	286	...	3	38	37	2	414	228	39
2,836	25	1,343	21	714	...	1	236	23	...	7	466	40
264	21	...	1	89	...	...	5	...	...	...	148	41
81,945	20,734	151	1,298	11,677	7,338	6,895	7,231	3,794	978	19	21,830	42
410,127	129,876	6,624	5,081	38,853	35,163	61,110	22,333	11,237	3,858	1,465	94,527	43
166,926	45,186	3,022	2,664	23,544	14,892	15,398	13,787	6,428	1,856	826	39,323	44
61,097	29,671	622	270	3,002	9,117	7,590	1,698	847	438	325	7,517	45
106,968	48,443	2,459	1,252	8,086	8,648	29,814	4,099	2,421	1,039	162	32,815	46
38,568	...	...	77	...	...	3,926	249	118	83	...	1,845	47
40	...	...	...	...	...	...	...	...	...	40	...	48
25,450	5,905	335	499	3,370	1,903	4,232	2,135	794	368	77	5,832	49
1,311	502	19	3	84	166	46	53	46	8	10	374	50
9,767	169	167	316	767	437	104	312	583	66	25	6,821	51
37,843	10,133	131	645	4,194	3,363	7,577	2,376	746	169	15	8,494	52

Table 3B.—Detailed Statistics for Industries in the United States,

	Item	138— Oil and gas field services indus- tries, total	1381—Drilling oil and gas wells industry							1382—Oil and gas explo- ration services industry		
			Total	Drilling oil, gas, dry, and service wells (producing establishments only)			Drilling in, spudding in, tailing in, and reworking wells			Total	Geo- physical explo- ration	Other explo- ration
				Total	With well opera- tions	Without well opera- tions	Total	With well opera- tions	Without well opera- tions			
1	Capital expenditures, total.....\$1,000..	151,312	102,018	96,587	33,088	63,499	5,431	740	4,691	7,082	6,971	111
2	Development and exploration of mineral properties.....do....	13,107	12,953	12,826	7,265	5,561	127	82	45	...	...	...
3	Other construction.....do....	8,499	3,322	3,079	915	2,164	243	59	184	554	520	34
4	New machinery and equipment.....do....	109,171	68,149	64,172	15,649	48,523	3,977	482	3,495	6,207	6,143	64
5	Used plant and equipment.....do....	20,535	17,594	16,510	9,259	7,251	1,084	117	967	321	308	13
6	Energy used <sup>2</sup> .....million kwh..	30,743	22,617	21,692	5,978	15,714	925	183	742	949	858	91
	Fuels produced and used for fuels at same establishment:											
7	Crude petroleum.....1,000 barrels..	2	1	1	1	...	...	...	...	...	...	...
8	Natural gas.....million cu. ft..	436	433	423	423	...	10	10	...	...	...	...
	Fuels purchased:											
9	Fuel oil.....1,000 barrels..	3,878	3,314	3,204	1,296	1,908	110	14	96	29	24	5
10	Gas.....million cu. ft..	41,724	39,378	38,677	10,096	28,581	701	252	449	116	86	30
11	Other fuels.....\$1,000..	36,346	18,013	16,171	2,006	14,165	1,842	303	1,539	2,170	2,104	66
12	Undistributed.....do....	7,519	422	219	...	219	203	...	203	1,228	1,010	218
13	Electric energy purchased.....million kwh..	181	99	92	25	67	7	2	5	15	12	3
14	Electric energy generated and used.....do....	303	301	299	6	293	2	1	1	2	...	2

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The total quantity of gas purchased for gas lift and repressuring in 1958 by the Oil and Gas Field Services Industries was 909 million cubic feet.<sup>2</sup>Excludes fuels furnished without charge by oil and gas companies for whom work was performed.<sup>3</sup>Less than one-half of the unit of measure specified.



by Principal Types of Service: 1958—Continued

1389—Oil and gas field services, nec. industry											
Total	Well sur- veying, well logging, and cementing wells	Building (erecting), repairing, and dis- mantling rigs and derricks	Excavating slush pits and cellars	Running, cutting, and pulling casing, tubes, and rods	Perforating well casing	Acidizing and other chemical treatment of wells	Cleaning out, bailing out, and swabbing wells	Installing production equipment	Erecting, cleaning, repairing, and dis- mantling lease tanks	Pumping wells but not operating leases	Other oil and gas field ser- vices, nec.
42,212	11,714	158	748	4,291	4,454	8,181	2,661	821	187	25	8,972
154	...	1	4	59	...	12	22	1	...	...	55
4,623	1,233	34	83	340	901	655	215	115	54	15	978
34,815	10,407	94	475	3,148	2,839	7,456	2,117	656	129	10	7,484
2,620	74	29	186	744	714	58	307	49	4	...	455
7,177	1,671	86	132	934	630	1,163	580	201	93	20	1,667
1	...	...	...	...	...	...	1	...	...	...	...
3	...	...	...	3	...	...	...	...	...	...	...
535	(3)	6	28	24	3	227	25	7	3	...	212
2,230	715	...	...	280	501	22	129	...	...	...	583
16,163	5,118	109	216	2,016	1,780	2,814	985	470	157	...	2,498
5,869	605	190	120	1,190	67	256	983	277	197	77	1,907
67	20	1	(3)	4	9	1	3	2	(3)	1	26
(3)	(3)	...	...	(3)	...	...	(3)	(3)	...	...	(3)

Table 4.—Selected Statistics for Establishments Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the first suppressed size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—									2,500 employees and over
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	
1381	DRILLING OIL AND GAS WELLS INDUSTRY:											
	Number of establishments.....	3,064	989	579	676	557	192	58	9	3	1	...
	All employees:											
	Number.....	<u>159,411</u>	2,160	3,962	9,264	17,030	12,782	8,345	2,871	<u>2,835</u>	(D)	...
	Payroll.....\$1,000..	<u>1289,243</u>	7,700	14,172	37,491	77,510	68,063	45,952	17,675	<u>19,290</u>	(D)	...
	Production and development workers:											
	Number.....	52,274	2,030	3,662	8,331	15,011	11,237	7,207	2,370	<u>2,426</u>	(D)	...
	Man-hours.....1,000..	109,470	3,712	6,585	15,775	29,607	24,540	16,404	5,763	<u>7,084</u>	(D)	...
	Wages.....\$1,000..	239,328	7,078	12,932	32,551	64,408	55,925	37,103	13,694	<u>15,637</u>	(D)	...
	Value added in mining.....do....	587,440	16,982	29,546	77,667	155,050	137,315	85,259	42,565	<u>43,056</u>	(D)	...
	Receipts for services and shipments.....do....	904,939	24,642	42,743	116,180	239,094	218,465	140,152	63,779	<u>59,884</u>	(D)	...
	Capital expenditures.....do....	102,018	1,600	2,803	12,986	21,008	27,235	16,012	13,843	<u>6,531</u>	(D)	...
	Number of establishments, by principal type of service:											
	Drilling oil, gas, dry, or service wells, total.....	2,518	782	464	550	475	182	52	9	3	1	...
	With well operations.....	525	87	83	119	154	67	14	1	...	...	...
	Without well operations.....	1,993	695	381	431	321	115	38	8	3	1	...
	Drilling in, spudding in, tailing in, and reworking wells, total.....	546	207	115	126	82	10	6	...	...	...	...
	With well operations.....	67	15	17	18	15	2	...	...	...	...	...
	Without well operations.....	479	192	98	108	67	8	6	...	...	...	...
1382	OIL AND GAS FIELD EXPLORATION SERVICES:											
	Number of establishments.....	347	157	55	59	37	20	14	2	2	1	...
	All employees:											
	Number.....	<u>19,557</u>	284	384	798	1,218	1,294	<u>3,002</u>	(D)	<u>2,452</u>	(D)	...
	Payroll.....\$1,000..	<u>143,649</u>	1,254	1,659	3,782	5,569	6,275	<u>14,442</u>	(D)	<u>9,892</u>	(D)	...
	Production and development workers:											
	Number.....	7,559	260	334	687	1,078	1,059	<u>2,478</u>	(D)	<u>1,663</u>	(D)	...
	Man-hours.....1,000..	16,695	570	727	1,578	2,587	2,512	<u>5,680</u>	(D)	<u>3,041</u>	(D)	...
	Wages.....\$1,000..	31,115	1,124	1,482	3,101	4,667	4,654	<u>10,712</u>	(D)	<u>5,375</u>	(D)	...
	Value added in mining.....do....	64,353	3,243	3,543	6,677	9,106	10,329	<u>20,016</u>	(D)	<u>11,439</u>	(D)	...
	Receipts for services and shipments.....do....	87,215	4,542	4,894	9,583	13,484	14,005	<u>28,347</u>	(D)	<u>12,360</u>	(D)	...
	Capital expenditures.....do....	7,082	124	189	549	877	515	<u>3,200</u>	(D)	<u>1,628</u>	(D)	...
	Number of establishments, by principal type of service:											
	Geophysical exploration, total..	289	120	45	51	36	18	14	2	2	1	...
	With well operations.....	2	1	...	1	...	...	...	...	...	...	...
	Without well operations.....	287	119	45	50	36	18	14	2	2	1	...
	Other exploration, total.....	58	37	10	8	1	2	...	...	...	...	...
	With well operations.....	1	...	...	1	...	...	...	...	...	...	...
	Without well operations.....	57	37	10	7	1	2	...	...	...	...	...
1389	OIL AND GAS FIELD SERVICES, NEC:											
	Number of establishments.....	2,504	1,244	453	396	307	65	26	3	4	4	2
	All employees:											
	Number.....	47,278	2,474	2,993	5,408	9,250	4,316	3,977	1,150	2,954	<u>14,756</u>	(D)
	Payroll.....\$1,000..	228,023	8,285	10,590	19,561	36,553	18,052	18,102	6,992	17,370	<u>92,518</u>	(D)
	Production and development workers:											
	Number.....	38,212	2,288	2,558	4,838	8,396	3,809	3,587	713	1,877	<u>10,146</u>	(D)
	Man-hours.....1,000..	86,060	4,179	4,831	9,570	16,796	8,090	8,263	1,686	4,576	<u>28,069</u>	(D)
	Wages.....\$1,000..	166,926	7,643	9,083	17,125	31,553	14,596	14,853	4,243	9,832	<u>57,998</u>	(D)
	Value added in mining.....do....	455,994	22,418	22,233	38,673	66,060	32,199	30,200	13,622	32,846	<u>197,743</u>	(D)
	Receipts for services and shipments.....do....	633,729	28,868	29,395	49,868	85,604	43,265	39,621	15,680	50,289	<u>291,139</u>	(D)
	Capital expenditures.....do....	42,212	1,239	1,337	4,001	5,808	2,664	1,653	2,065	4,475	<u>18,970</u>	(D)
	Well surveying, well logging, and cementing wells services subindustry:											
	Number of establishments.....	199	104	37	25	19	8	2	2	...	...	2
	All employees:											
	Number.....	12,081	220	244	352	629	<u>10,636</u>	(D)	(D)	...	...	(D)
	Payroll.....\$1,000..	74,857	1,041	1,270	1,552	3,185	<u>87,809</u>	(D)	(D)	...	...	(D)

See footnote at end of table.



Table 4.—Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All estab- lish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1389	OIL AND GAS FIELD SERVICES, NEC—Continued											
	Well surveying, well logging, and cementing wells services subindustry—Continued											
	Production and development workers:											
	Number.....	8,180	201	201	288	520	6,970	(D)	(D)	...	...	(D)
	Man-hours.....	20,782	450	483	641	1,231	17,977	(D)	(D)	...	...	(D)
	Wages.....\$1,000..	45,186	948	1,052	1,267	2,510	39,409	(D)	(D)	...	...	(D)
	Value added in mining.....do....	167,391	2,726	2,708	3,270	5,999	152,688	(D)	(D)	...	...	(D)
	Receipts for services and shipments.....do....	220,829	3,383	3,828	4,217	8,061	201,340	(D)	(D)	...	...	(D)
	Capital expenditures.....do....	11,714	181	143	169	327	10,894	(D)	(D)	...	...	(D)
	Miscellaneous oil and gas field services subindustry:											
	Number of establishments.....	2,305	1,140	416	371	288	57	24	1	4	4	...
	All employees:											
	Number.....	35,197	2,254	2,749	5,056	8,621	13,563	(D)	(D)	2,954	(D)	...
	Payroll.....\$1,000..	153,166	7,244	9,320	18,009	33,368	67,855	(D)	(D)	17,370	(D)	...
	Production and develop- ment workers:											
	Number.....	30,032	2,087	2,357	4,550	7,876	11,285	(D)	(D)	1,877	(D)	...
	Man-hours.....	65,278	3,729	4,348	8,929	15,565	28,131	(D)	(D)	4,576	(D)	...
	Wages.....\$1,000..	121,740	6,695	8,031	15,858	29,043	52,281	(D)	(D)	9,832	(D)	...
	Value added in mining.....do....	288,603	19,692	19,525	35,403	60,061	121,076	(D)	(D)	32,846	(D)	...
	Receipts for services and shipments.....do....	412,900	25,485	25,567	45,651	77,543	188,365	(D)	(D)	50,289	(D)	...
	Capital expenditures.....do....	30,498	1,058	1,194	3,832	5,481	14,458	(D)	(D)	4,475	(D)	...
	Number of establish- ments, by principal type of service:											
	Well surveying and well logging, total.....	140	74	24	16	15	6	2	2	...	...	1
	With well operations.....	1	1	...	...	...	...	...	...	...	...	...
	Without well operations.....	139	73	24	16	15	6	2	2	...	...	1
	Cementing wells, total.....	59	30	13	9	4	2	...	...	...	...	1
	With well operations.....	2	2	...	...	...	...	...	...	...	...	...
	Without well operations.....	57	28	13	9	4	2	...	...	...	...	1
	Building (erecting), re- pairing, or dismantling rigs and derricks, total.....	92	47	19	13	9	3	1	...	...	...	...
	With well operations.....	1	...	...	...	1	...	...	...	...	...	...
	Without well operations.....	91	47	19	13	8	3	1	...	...	...	...
	Excavating slush pits or cellars (without well operations).....	62	34	12	11	3	1	1	...	...	...	...
	Running, cutting, and pulling casing, tubes, or rods, total.....	624	284	126	112	86	11	5	...	...	...	...
	With well operations.....	49	21	10	11	7	...	...	...	...	...	...
	Without well operations.....	575	263	116	101	79	11	5	...	...	...	...
	Perforating well casing (without well operations).....	30	10	6	5	3	2	...	1	1	2	...
	Acidizing and other chemical treatment of wells, total.....	41	23	4	4	4	2	1	...	2	1	...
	With well operations.....	2	...	...	1	...	1	...	...	...	...	...
	Without well operations.....	39	23	4	3	4	1	1	...	2	1	...
	Cleaning out, bailing out, or swabbing wells, total.....	350	176	65	56	47	4	1	...	1	...	...
	With well operations.....	23	10	5	3	4	1	...	...	...	...	...
	Without well operations.....	327	166	60	53	43	3	1	...	1	...	...
	Installing production equipment (without well operations).....	153	56	30	35	26	3	3	...	...	...	...
	Erecting, cleaning, repairing, or dismantling lease tanks, total.....	81	55	15	2	7	2	...	...	...	...	...
	With well operations.....	2	1	1	...	...	...	...	...	...	...	...
	Without well operations.....	79	54	14	2	7	2	...	...	...	...	...
	Pumping wells but not operating leases, total.....	82	68	10	2	2	...	...	...	...	...	...
	With well operations.....	10	8	1	...	1	...	...	...	...	...	...
	Without well operations.....	72	60	9	2	1	...	...	...	...	...	...
	Other oil and gas field services, nec, total.....	790	387	129	131	101	29	12	...	...	1	...
	With well operations.....	38	18	10	8	1	1	...	...	...	...	...
	Without well operations.....	752	369	119	123	100	28	12	...	...	1	...

<sup>1</sup>Includes figures for separately reported central offices and related facilities. These were not included in the figures distributed by size of establishment.

Table 5A.—Industry-Product Analysis, Summary of Industry Receipts and Shipments and Receipts for Primary Services for the United States: 1958 and 1954

Ind. code	Industry or subindustry and year	Value of shipments and receipts of establishments classified in the industry or subindustry					Receipts for primary services		
		Total	Receipts for primary services	Secondary products	Receipts for secondary services	Products purchased and resold without further processing	Total (received in all industries)	Received in this industry or subindustry	Received in other industries or subindustries
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1381	Drilling oil and gas wells.....1958..	904,939	842,509	49,515	10,697	2,218	895,267	842,509	52,758
	1954..	972,745	892,957	58,705	16,467	4,616	921,233	892,957	28,276
1382	Oil and gas exploration services.....1958..	87,215	83,991	24	2,093	1,107	84,647	83,991	656
	1954..	114,815	110,186	(D)	(D)	(D)	110,804	110,186	618
1389	Oil and gas field services, nec..1958..	633,729	560,656	1,897	13,149	58,027	578,104	560,656	17,448
	1954..	543,460	(D)	(D)	(D)	(D)	508,529	(D)	(D)
	Survey, log, cement services subindustry.....1958..	220,829	150,361	24	24,130	46,314	181,215	150,361	30,854
	1954..	191,336	119,022	...	31,819	40,495	131,487	119,022	12,465
	Miscellaneous oil and gas field services subindustry....1958..	412,900	357,713	1,873	41,601	11,713	396,889	357,713	39,176
	1954..	352,124	(D)	(D)	(D)	(D)	377,042	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.

Table 5B.—Classes of Primary Services by Industry and Subindustry: 1958

Ind. code	Industry group, industry, or subindustry	Receipts for--			
		Drilling oil and gas wells services (\$1,000)	Oil and gas field exploration services (\$1,000)	Well surveying, well logging, and cementing wells services (\$1,000)	Miscellaneous oil and gas field services (\$1,000)
13	Oil and gas extraction industries, total.....	895,267	84,647	181,215	<sup>1</sup> 396,889
138	Oil and gas field services industries, total.....	850,141	84,261	181,181	388,605
1381	Drilling oil and gas wells industry.....	842,509	129	440	7,389
1382	Oil and gas exploration services.....	462	83,991	1,156	145
1389	Oil and gas field services, nec, industry, total.....	7,170	141	179,585	381,071
	Survey, log, cement services subindustry.....	535	17	150,361	23,358
	Miscellaneous oil and gas field services subindustry.....	6,635	124	29,224	357,713
1311	Crude petroleum and natural gas industry, total.....	45,126	386	34	7,942
	Crude petroleum subindustry.....	42,453	117	34	7,142
	Natural gas subindustry.....	2,673	269	...	800
1321	Natural gas liquids industry.....	...	...	...	<sup>1</sup> 342

<sup>1</sup>Includes receipts for oil and gas field services in the Nonmetallic Minerals (Except Fuels) Services Industries.



Table 6A.—Primary Services of the Oil and Gas Field Services Industries,  
by Divisions and States: 1958 and 1954

(In general, contractors prepared one report for all oil and gas field services performed in the United States and Alaska. These reports were classified on the basis of the principal State in which the service was performed. Separate data were contained in these reports for the various kinds of work performed)

Type of service, division, and State	Receipts for services (\$1,000)		Type of service, division, and State	Receipts for services (\$1,000)	
	1958	1954		1958	1954
DRILLING OIL AND GAS WELLS SERVICES			DRILLING OIL AND GAS WELLS SERVICES--Continued		
United States:			East South Central--Continued		
Drilling oil and gas wells, total.....	895,267	921,233	Mississippi:		
Drilling oil, gas, dry, and service wells....	822,252	872,210	Drilling oil and gas wells.....	18,841	10,065
Drilling in, spudding in, tailing in, and reworking wells.....	73,015	149,023	Drilling oil, gas, dry, and service wells....	18,789	9,641
Middle Atlantic:			West South Central:		
Drilling oil and gas wells, total.....	13,271	9,299	Drilling oil and gas wells, total.....	609,118	626,192
Drilling oil, gas, dry, and service wells....	12,487	8,672	Drilling oil, gas, dry, and service wells....	562,076	589,839
Drilling in, spudding in, tailing in, and reworking wells.....	784	627	Drilling in, spudding in, tailing in, and reworking wells.....	47,042	36,353
New York:			Arkansas:		
Drilling oil and gas wells.....	720	911	Drilling oil and gas wells.....	5,920	3,191
Pennsylvania:			Drilling oil, gas, dry, and service wells....	5,515	3,172
Drilling oil and gas wells.....	12,551	8,388	Louisiana:		
East North Central:			Drilling oil and gas wells, total.....	214,205	146,087
Drilling oil and gas wells, total.....	39,356	42,167	Drilling oil, gas, dry, and service wells....	203,693	138,189
Drilling oil, gas, dry, and service wells....	33,897	39,268	Drilling in, spudding in, tailing in, and reworking wells.....	10,512	7,898
Drilling in, spudding in, tailing in, and reworking wells.....	5,459	2,899	Oklahoma:		
Ohio:			Drilling oil and gas wells, total.....	80,446	113,732
Drilling oil and gas wells.....	7,346	5,094	Drilling oil, gas, dry, and service wells....	73,063	105,576
Drilling oil, gas, dry, and service wells....	7,042	5,005	Drilling in, spudding in, tailing in, and reworking wells.....	7,383	8,156
Indiana:			Texas:		
Drilling oil and gas wells.....	4,134	2,855	Drilling oil and gas wells, total.....	308,547	363,182
Drilling oil, gas, dry, and service wells....	3,737	2,804	Drilling oil, gas, dry, and service wells....	279,805	342,902
Illinois:			Drilling in, spudding in, tailing in, and reworking wells.....	28,742	20,280
Drilling oil and gas wells, total.....	20,868	26,719	Mountain:		
Drilling oil, gas, dry, and service wells....	16,466	24,009	Drilling oil and gas wells, total.....	102,409	93,308
Drilling in, spudding in, tailing in, and reworking wells.....	4,402	2,710	Drilling oil, gas, dry, and service wells....	92,851	91,218
Michigan:			Drilling in, spudding in, tailing in, and reworking wells.....	9,558	2,090
Drilling oil and gas wells.....	7,008	7,499	Wyoming:		
Drilling oil, gas, dry, and service wells....	6,652	7,452	Drilling oil and gas wells, total.....	25,780	31,513
West North Central:			Drilling oil, gas, dry, and service wells....	24,114	30,793
Drilling oil and gas wells, total.....	48,527	53,050	Drilling in, spudding in, tailing in, and reworking wells.....	1,666	720
Drilling oil, gas, dry, and service wells....	42,797	49,098	Colorado:		
Drilling in, spudding in, tailing in, and reworking wells.....	5,730	3,952	Drilling oil and gas wells, total.....	15,673	21,478
North Dakota:			Drilling oil, gas, dry, and service wells....	13,760	21,274
Drilling oil and gas wells.....	9,503	3,063	Drilling in, spudding in, tailing in, and reworking wells.....	1,913	204
Drilling oil, gas, dry, and service wells....	9,425	3,063	New Mexico:		
Nebraska:			Drilling oil and gas wells, total.....	37,872	29,276
Drilling oil and gas wells.....	4,550	3,504	Drilling oil, gas, dry, and service wells....	32,107	28,626
Drilling oil, gas, dry, and service wells....	4,094	3,471	Drilling in, spudding in, tailing in, and reworking wells.....	5,765	650
Kansas:			Utah:		
Drilling oil and gas wells, total.....	33,974	45,829	Drilling oil and gas wells (drilling oil, gas, dry, and service wells only).....	17,329	(D)
Drilling oil, gas, dry, and service wells....	28,797	41,910	Montana and Idaho:		
Drilling in, spudding in, tailing in, and reworking wells.....	5,177	3,919	Drilling oil and gas wells.....	5,755	(D)
South Atlantic:			Drilling oil, gas, dry, and service wells....	5,541	(NA)
Drilling oil and gas wells, total.....	7,036	8,063	Pacific:		
Drilling oil, gas, dry, and service wells....	6,830	7,895	Drilling oil and gas wells, total.....	44,740	70,253
Drilling in, spudding in, tailing in, and reworking wells.....	206	168	Drilling oil, gas, dry, and service wells....	41,490	68,108
West Virginia:			Drilling in, spudding in, tailing in, and reworking wells.....	3,250	2,145
Drilling oil and gas wells.....	6,672	6,463	OIL AND GAS FIELD EXPLORATION SERVICES		
Drilling oil, gas, dry, and service wells....	6,466	6,295	United States, total:		
East South Central:			Oil and gas field exploration services, total..	84,647	110,804
Drilling oil and gas wells, total.....	30,810	18,901	Geophysical exploration.....	78,613	91,883
Drilling oil, gas, dry, and service wells....	29,824	18,112	Other exploration.....	6,034	18,921
Drilling in, spudding in, tailing in, and reworking wells.....	986	789	Middle Atlantic and East North Central:		
Kentucky:			Oil and gas field exploration services.....	1,056	10,797
Drilling oil and gas wells.....	10,322	8,610			
Drilling oil, gas, dry, and service wells....	9,620	8,248			
Alabama:					
Drilling oil and gas wells.....	1,570	167			

See footnotes at end of table.

Table 6A.—Primary Services of the Oil and Gas Field Services Industries,  
by Divisions and States: 1958 and 1954—Continued

Type of service, division, and State	Receipts for services (\$1,000)		Type of service, division, and State	Receipts for services (\$1,000)	
	1958	1954		1958	1954
OIL AND GAS FIELD EXPLORATION SERVICES--Continued			OIL AND GAS FIELD SERVICES, NEC--Continued		
West North Central:			West North Central:		
Oil and gas field exploration services.....	3,084	3,020	Oil and gas field services, nec.....	19,420	18,336
Kansas:			Well surveying and well logging.....	1,188	(NA)
Oil and gas field exploration services.....	2,939	2,564	Cementing wells.....	1,169	578
East South Central:			Excavating slush pits and cellars.....	1,059	1,382
Oil and gas field exploration services.....	3,959	1,778	Running, cutting, and pulling casing, tubes, and rods.....	6,408	4,673
Mississippi:			Cleaning out, bailing out, and swabbing wells	1,419	2,663
Oil and gas field exploration services.....	3,714	274	Installing production equipment.....	1,482	956
West South Central:			North Dakota:		
Oil and gas field exploration services, total..	62,194	84,998	Oil and gas field services, nec.....	2,913	(NA)
Geophysical exploration.....	58,599	77,847	Nebraska:		
Other exploration.....	3,595	7,151	Oil and gas field services, nec.....	2,069	...
Louisiana:			Kansas:		
Oil and gas field exploration services.....	22,884	12,506	Oil and gas field services, nec.....	14,385	15,619
Texas:			Cementing wells.....	1,168	578
Oil and gas field exploration services, total..	34,767	65,984	Running, cutting, and pulling casing, tubes, and rods.....	5,724	(NA)
Geophysical exploration.....	31,923	59,238	South Atlantic (Maryland and West Virginia):		
Other exploration.....	2,844	6,746	Oil and gas field services, nec.....	1,669	1,534
Arkansas and Oklahoma:			East South Central:		
Oil and gas field exploration services.....	4,543	6,508	Oil and gas field services, nec.....	8,723	4,468
Mountain:			Running, cutting, and pulling casing, tubes, and rods.....	2,129	1,176
Oil and gas field exploration services.....	11,956	8,733	Cleaning out, bailing out, and swabbing wells	1,153	314
Wyoming:			Mississippi:		
Oil and gas field exploration services.....	2,299	3,911	Oil and gas field services, nec.....	6,080	2,939
New Mexico:			Running, cutting, and pulling casing, tubes, and rods.....	1,873	866
Oil and gas field exploration services.....	7,100	1,083	West South Central:		
Pacific:			Oil and gas field services, nec, total.....	489,720	412,508
Oil and gas field exploration services.....	2,398	1,328	Well surveying and well logging.....	93,695	65,866
OIL AND GAS FIELD SERVICES, NEC			Cementing wells.....	77,401	54,107
United States:			Building, repairing, and dismantling rigs and derricks.....	7,020	9,346
Oil and gas field services, nec, total.....	578,104	508,529	Excavating slush pits and cellars.....	5,614	4,926
Well surveying and well logging.....	99,547	68,718	Running, cutting, and pulling casing, tubes, and rods.....	37,288	24,944
Cementing wells.....	81,668	62,769	Perforating well casing.....	37,749	36,272
Building, repairing, and dismantling rigs and derricks.....	10,154	12,804	Acidizing and other chemical treatment of wells.....	66,838	50,854
Excavating slush pits and cellars.....	8,833	7,935	Cleaning out, bailing out, and swabbing wells	27,506	33,422
Running, cutting, and pulling casing, tubes, and rods.....	55,288	40,198	Installing production equipment, such as wellhead fittings, pumps, and engines.....	11,883	9,799
Perforating well casing.....	39,164	38,888	Erecting, cleaning, repairing, and dismantling lease tanks.....	4,575	4,477
Acidizing and other chemical treatment of wells.....	69,440	53,382	Pumping wells but not operating leases.....	3,642	1,413
Cleaning out, bailing out, and swabbing wells	39,329	55,251	Other oil and gas field services.....	116,509	115,082
Installing production equipment, such as wellhead fittings, pumps, and engines.....	16,812	14,019	Louisiana:		
Erecting, cleaning, repairing, and dismantling lease tanks.....	6,558	7,986	Oil and gas field services, nec.....	82,460	48,799
Pumping wells but not operating leases.....	5,554	3,852	Well surveying and well logging.....	6,312	2,580
Other oil and gas field services.....	145,757	142,727	Building, repairing, and dismantling rigs and derricks.....	2,711	3,456
Middle Atlantic:			Excavating slush pits and cellars.....	1,115	588
Oil and gas field services, nec.....	3,189	(NA)	Running, cutting, and pulling casing, tubes, and rods.....	4,263	3,081
East North Central:			Cleaning out, bailing out, and swabbing wells	2,782	1,301
Oil and gas field services, nec.....	9,080	(NA)	Installing production equipment, such as wellhead fittings, pumps, and engines.....	4,245	1,069
Well surveying, well logging, and cementing wells.....	1,886	(NA)	Texas:		
Running, cutting, and pulling casing, tubes, and rods.....	2,664	1,972	Oil and gas field services, nec, total.....	377,755	333,755
Illinois:			Well surveying and well logging.....	85,629	62,343
Oil and gas field services, nec.....	6,482	(NA)	Cementing wells.....	75,204	52,991
Well surveying, well logging, and cementing wells.....	1,676	(NA)	Building, repairing, and dismantling rigs and derricks.....	3,782	4,990
Running, cutting, and pulling casing, tubes, and rods.....	1,411	1,133	Excavating slush pits and cellars.....	3,269	2,649
Michigan:			Running, cutting, and pulling casing, tubes, and rods.....	26,541	16,782
Oil and gas field services, nec.....	1,018	(NA)			

See footnotes at end of table.



Table 6A.--Primary Services of the Oil and Gas Field Services Industries,  
by Divisions and States: 1958 and 1954--Continued

Type of service, division, and State	Receipts for services (\$1,000)		Type of service, division, and State	Receipts for services (\$1,000)	
	1958	1954		1958	1954
OIL AND GAS FIELD SERVICES, NEC--Continued			OIL AND GAS FIELD SERVICES, NEC--Continued		
West South Central--Continued			Mountain--Continued		
Texas--Continued			Running, cutting, and pulling casing, tubes, and rods.....	3,892	3,158
Perforating well casing.....	36,632	35,986	Cleaning out, bailing out, and swabbing wells	3,904	6,229
Acidizing and other chemical treatment of wells.....	65,665	50,393	Installing production equipment, such as wellhead fittings, pumps, and engines.....	2,610	1,706
Cleaning out, bailing out, and swabbing wells.	18,220	24,305			
Installing production equipment, such as wellhead fittings, pumps, and engines.....	6,069	6,745	Wyoming:		
Erecting, cleaning, repairing, and dismantling lease tanks.....	2,843	3,121	Oil and gas field services, nec.....	4,026	5,799
Pumping wells but not operating leases.....	2,612	949	New Mexico:		
Other oil and gas field services.....	51,289	72,501	Oil and gas field services, nec.....	11,976	7,383
Arkansas and Oklahoma:			Running, cutting, and pulling casing, tubes, and rods.....	2,620	1,520
Oil and gas field services, nec.....	29,505	29,954	Cleaning out, bailing out, and swabbing wells	1,721	2,259
Well surveying and well logging.....	1,754	943	Utah:		
Cementing wells.....	1,906	(NA)	Oil and gas field services, nec.....	2,243	215
Excavating slush pits and cellars.....	1,230	1,689			
Running, cutting, and pulling casing, tubes, and rods.....	6,484	5,081	Pacific:		
Cleaning out, bailing out, and swabbing wells	6,504	9,816	Oil and gas field services, nec.....	22,502	36,342
Installing production equipment, such as wellhead fittings, pumps, and engines.....	1,569	1,985	Well surveying, well logging, and cementing wells.....	3,198	8,054
Erecting, cleaning, repairing, and dismantling lease tanks.....	1,001	1,019	Building, repairing, and dismantling rigs and derricks.....	2,118	2,165
Mountain:			Running, cutting, and pulling casing, tubes, and rods.....	2,021	3,583
Oil and gas field services, nec.....	23,801	20,021	Cleaning out, bailing out, and swabbing wells	3,668	6,191
Well surveying, well logging, and cementing wells.....	1,073	981			
Excavating slush pits and cellars.....	1,393	513			

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The report form used for 1954 did not carry a preprinted line for this type of service. It is probable, therefore, that it was not reported separately in many cases and the indicated increase in this type of service between 1954 and 1958 may not be significant.

Table 6B.--Primary Services of the Oil and Gas Field Services Industries Distributed by Unit Values: 1958

(Such statistics were not compiled for these industries)

Table 6C.--Primary Services of the Oil and Gas Field Services Industries, by Country: 1958

(Such statistics were not compiled for these industries)

Table 6D.—Number and Footage of Oil, Gas, Dry, and Service Wells Drilled and Costs  
in the United States: 1958, 1954, and

(Represents wells drilled on contract for others by establishments classified in the oil and gas field services industries and in the crude petroleum

	Item	United States, total			Middle Atlantic		
		1958	1954	1959	Total	New York	Pennsyl- vania
1	Number of wells drilled, total <sup>a</sup> .....	37,977	45,264	12,729	644	120	524
2	Oil wells.....	21,327	27,447	10,344	300	74	226
3	Gas wells.....	3,429	3,103	758	284	25	259
4	Dry holes <sup>7</sup> .....	12,140	13,270	1,627	37	12	25
5	Service wells <sup>7</sup> .....	1,081	1,444	(NA)	23	9	14
6	Footage drilled, total.....1,000 ft..	153,332	171,391	40,083	2,121	203	1,918
7	Oil wells.....do...	82,366	103,363	32,786	597	112	485
8	Gas wells.....do...	16,991	12,475	2,155	1,318	49	1,269
9	Dry holes.....do...	52,339	55,483	5,142	174	42	164
10	Service wells.....do...	1,636	2,070	(NA)	32		
11	Average footage drilled per well, all wells.....	4,037	3,786	3,149	3,293	1,694	3,659
12	Oil wells.....	3,862	3,766	3,170	1,989	1,513	2,145
13	Gas wells.....	4,955	4,020	2,843	4,639	1,940	4,899
14	Dry holes.....	4,311	4,030	3,160	4,699		
15	Service wells.....	1,513	1,434	(NA)	1,413	2,038	4,194
16	Costs borne by contractors in drilling and equipping wells on contract, total <sup>a</sup> .....\$1,000..	655,207	715,820	98,752	9,056	540	8,516
17	Per well.....do...	17.3	15.8	7.8	14.1	4.5	16.3
18	Per foot.....\$1.00..	4.27	4.18	2.46	4.27	2.66	4.44
19	Oil wells.....\$1,000..	348,810	437,499	81,261	1,427	173	1,254
20	Per well.....do...	16.4	15.9	7.9	4.8	2.3	5.5
21	Per foot.....\$1.00..	4.23	4.23	2.48	2.39	1.55	2.59
22	Gas wells.....\$1,000..	85,944	55,887	4,520	6,636	203	6,433
23	Per well.....do...	25.1	18.0	6.0	23.4	8.1	24.8
24	Per foot.....\$1.00..	5.06	4.48	2.10	5.04	4.19	5.07
25	Dry holes.....\$1,000..	215,214	216,337	12,971	861	<sup>a</sup> 164	<sup>a</sup> 829
26	Per well.....do...	17.7	16.3	8.0	23.3	<sup>a</sup> 7.8	<sup>a</sup> 21.3
27	Per foot.....\$1.00..	4.11	4.04	2.52	4.95	<sup>a</sup> 3.83	<sup>a</sup> 5.07
28	Service wells.....\$1,000..	5,239	6,097	(NA)	132	( <sup>a</sup> )	( <sup>a</sup> )
29	Per well.....do...	4.8	4.2	(NA)	5.7	( <sup>a</sup> )	( <sup>a</sup> )
30	Per foot.....\$1.00..	3.20	2.95	(NA)	4.06	( <sup>a</sup> )	( <sup>a</sup> )
31	Cost, excluding amount paid or due subcontractors, total.....\$1,000..	631,727	696,351	98,752	8,942	540	8,402
32	Oil wells.....do...	335,941	426,051	81,261	1,427	173	1,254
33	Gas wells.....do...	85,741	54,041	4,520	6,533	203	6,330
34	Dry holes.....do...	206,944	210,302	12,971	861	164	818
35	Service wells.....do...	5,101	5,957	(NA)	121		
36	Cost of drilling, total <sup>10</sup> .....do...	627,369	689,037	95,604	8,567	531	8,036
37	Oil wells.....do...	333,392	420,353	78,512	1,427	173	1,254
38	Gas wells.....do...	82,663	53,066	4,290	6,170	203	5,967
39	Dry holes.....do...	206,242	209,690	12,802	851	155	815
40	Service wells.....do...	5,072	5,928	(NA)	119		
41	Cost of casing, total <sup>11</sup> .....do...	2,937	4,494	1,995	344	9	335
42	Oil wells.....do...	1,463	3,110	1,690	...	...	...
43	Gas wells.....do...	764	748	150	334	...	334
44	Dry holes.....do...	691	607	155	10	9	1
45	Service wells.....do...	19	29	(NA)	...	...	...
46	Cost of equipment for flowing and pumping and production derrick, total <sup>12</sup> .....do...	1,421	2,820	1,153	31	...	31
47	Oil wells.....do...	1,086	2,588	1,059	...	...	...
48	Gas wells.....do...	314	227	80	29	...	29
49	Dry holes.....do...	11	5	14	...	...	...
50	Service wells.....do...	10	...	(NA)	2	...	2
51	Amount paid or due subcontractors for drilling and equipping wells, total.....do...	23,480	19,469	(NA)	114	...	114
52	Oil wells.....do...	12,869	11,448	(NA)	...	...	...
53	Gas wells.....do...	2,203	1,846	(NA)	103	...	103
54	Dry holes.....do...	8,270	6,035	(NA)	...	...	...
55	Service wells.....do...	138	140	(NA)	11	...	11

See footnotes at end of table.



Borne by Drilling Contractors in Drilling and Equipping Wells Drilled on Contract  
1939, and for Divisions and States: 1958

and natural gas industry. All wells reported by an establishment were classified in the principal State in which the establishment performed services)

East North Central					West North Central				
Total	Ohio	Indiana	Illinois	Michigan	Total	North Dakota	Nebraska	Missouri and Kansas <sup>1</sup>	
3,733	784	624	1,870	455	3,592	224	237	3,131	1
1,695	404	274	880	137	2,318	173	123	2,022	2
280	208	20	13	39	122	3	...	119	3
1,537	149	326	822	240	1,075	48	114	913	4
221	23	4	155	39	77	...	...	77	5
8,598	2,125	971	4,310	1,192	11,281	1,400	1,330	8,551	6
4,130	1,202	443	2,089	396	7,071	1,139	705	5,227	7
607	483	9	7	108	350	18	...	332	8
3,508	384	513	1,987	624	3,705	243	625	2,837	9
353	56	6	1,467	64	155	...	...	155	10
2,304	2,711	1,558	2,305	2,620	3,141	6,248	5,614	2,731	11
2,437	2,976	1,618	2,374	2,889	3,051	6,582	5,735	2,585	12
2,171	2,322	472	550	2,781	2,870	5,948	xxx	2,792	13
2,282	2,579	1,574	2,417	2,598	3,447	5,062	5,483	3,108	14
1,599	2,422	1,562	1,467	1,642	2,017	xxx	xxx	2,017	15
27,359	5,854	2,951	13,061	5,493	33,214	7,407	3,151	22,656	16
7.3	7.5	4.7	7.0	12.1	9.2	33.1	13.3	7.2	17
3.18	2.75	3.04	3.03	4.61	2.94	5.29	2.37	2.65	18
12,687	3,376	1,349	6,189	1,773	21,608	6,175	1,544	13,889	19
7.5	8.4	4.9	7.0	12.9	9.3	35.7	12.6	6.9	20
3.07	2.81	3.04	2.96	4.48	3.06	5.42	2.19	2.66	21
1,942	1,348	39	22	533	1,023	69	...	954	22
6.9	6.5	2.0	1.7	13.7	8.4	23.0	xxx	8.0	23
3.19	2.79	4.13	3.07	4.92	2.92	3.87	xxx	2.87	24
10,971	1,037	1,546	5,713	2,675	10,190	1,163	1,607	7,420	25
7.1	7.0	4.7	7.0	11.1	9.5	24.2	14.1	8.1	26
3.13	2.70	3.01	2.88	4.29	2.75	4.79	2.57	2.61	27
1,759	93	17	1,137	512	393	...	...	393	28
8.0	4.0	4.2	7.3	13.1	5.1	xxx	xxx	5.1	29
4.98	1.67	2.72	5.00	7.99	2.53	xxx	xxx	2.53	30
26,558	5,457	2,902	12,784	5,415	31,827	6,980	3,012	21,835	31
12,270	3,109	1,322	6,081	1,758	20,663	5,809	1,482	13,372	32
1,894	1,311	39	22	522	964	47	...	917	33
10,638	944	1,524	5,547	2,623	9,824	1,124	1,530	7,170	34
1,756	93	17	1,134	512	376	...	...	376	35
25,808	5,119	2,894	12,563	5,232	31,603	6,980	2,995	21,628	36
11,706	2,816	1,316	5,865	1,709	20,459	5,809	1,481	13,169	37
1,810	1,280	39	20	471	964	47	...	917	38
10,546	930	1,522	5,544	2,550	9,807	1,124	1,514	7,169	39
1,746	93	17	1,134	502	373	...	...	373	40
455	230	1	78	146	113	...	17	96	41
294	216	{	73	67	{	95	...	94	42
64	...	...	2	...	...	...	...	...	43
88	14	1	3	70	17	...	16	1	44
9	...	...	...	9	1	...	...	1	45
295	108	7	143	37	111	...	...	111	46
270	108	{	143	33	{	109	...	109	47
20	...	...	...	...	...	...	...	...	48
4	...	1	...	3	...	...	...	...	49
1	...	...	...	1	2	...	...	2	50
801	397	49	277	78	1,387	427	139	821	51
417	267	27	108	15	945	366	62	517	52
48	37	...	...	11	59	22	...	37	53
333	93	22	166	52	366	39	77	250	54
3	...	...	3	...	17	...	...	17	55

Table 6D.—Number and Footage of Oil, Gas, Dry, and Service Wells Drilled and Costs in the United States: 1958, 1954, and 1939.

	Item	South Atlantic <sup>2</sup>	East South Central			
			Total	Kentucky	Mississippi	Tennessee and Alabama <sup>3</sup>
1	Number of wells drilled, total <sup>6</sup> .....	512	2,274	1,918	324	32
2	Oil wells.....	77	1,261	1,085	161	15
3	Gas wells.....	381	184	171	10	3
4	Dry holes <sup>7</sup> .....	45	780	617	149	14
5	Service wells <sup>7</sup> .....	9	49	45	4	...
6	Footage drilled, total.....1,000 ft..	1,384	5,493	2,476	2,802	215
7	Oil wells.....do..	200	2,852	1,162	1,528	162
8	Gas wells.....do..	1,051	514	415	96	3
9	Dry holes.....do..	121	2,063	844	1,169	50
10	Service wells.....do..	12	64	55	9	...
11	Average footage drilled per well, all wells.....	2,702	2,415	1,291	8,647	6,718
12	Oil wells.....	2,600	2,262	1,071	9,488	10,846
13	Gas wells.....	2,758	2,797	2,432	9,579	1,008
14	Dry holes.....	2,681	2,644	1,367	7,848	3,520
15	Service wells.....	1,333	1,297	1,213	2,250	xxx
16	Costs borne by contractors in drilling and equipping wells on contract, total <sup>8</sup> .....\$1,000..	5,555	23,412	7,311	14,979	1,122
17	Per well.....do..	10.8	10.3	3.8	46.2	35.1
18	Per foot.....\$1.00..	4.01	4.26	2.95	5.35	5.22
19	Oil wells.....\$1,000..	733	12,194	3,484	7,806	904
20	Per well.....do..	9.5	9.7	3.2	48.5	60.3
21	Per foot.....\$1.00..	3.66	4.28	3.00	5.11	5.56
22	Gas wells.....\$1,000..	4,287	2,352	1,593	743	16
23	Per well.....do..	11.3	12.8	9.3	74.3	5.3
24	Per foot.....\$1.00..	4.08	4.57	3.83	7.76	5.29
25	Dry holes.....\$1,000..	517	8,726	2,120	6,404	202
26	Per well.....do..	11.5	11.2	3.4	43.0	14.4
27	Per foot.....\$1.00..	4.28	4.23	2.51	5.48	4.10
28	Service wells.....\$1,000..	18	140	114	26	...
29	Per well.....do..	2.0	2.9	2.5	6.5	xxx
30	Per foot.....\$1.00..	1.50	2.20	2.09	2.89	xxx
31	Cost, excluding amount paid or due subcontractors, total.....\$1,000..	5,538	22,492	7,055	14,320	1,117
32	Oil wells.....do..	733	11,710	6,942	14,294	899
33	Gas wells.....do..	4,270	2,255			16
34	Dry holes.....do..	517	8,388			202
35	Service wells.....do..	18	139			...
36	Cost of drilling, total <sup>10</sup> .....do..	5,425	21,867	6,815	14,082	970
37	Oil wells.....do..	700	11,289	3,125	7,412	752
38	Gas wells.....do..	4,190	2,169	1,495	658	16
39	Dry holes.....do..	517	8,278	2,090	5,986	202
40	Service wells.....do..	18	131	105	26	...
41	Cost of casing, total <sup>11</sup> .....do..	59	434	120	209	105
42	Oil wells.....do..	19	251	117	209	105
43	Gas wells.....do..	40	70			...
44	Dry holes.....do..	...	110			...
45	Service wells.....do..	...	3			...
46	Cost of equipment for flowing and pumping and production derrick, total <sup>13</sup> .....do..	54	191	120	29	42
47	Oil wells.....do..	14	170	115	29	42
48	Gas wells.....do..	40	16			...
49	Dry holes.....do..	...	...			...
50	Service wells.....do..	...	5			...
51	Amount paid or due subcontractors for drilling and equipping wells, total.....do..	17	920	256	659	5
52	Oil wells.....do..	...	484	255	659	5
53	Gas wells.....do..	17	97			...
54	Dry holes.....do..	...	338			...
55	Service wells.....do..	...	1			...

NA Not available.

<sup>1</sup>Only 2 oil wells, 9 dry holes, and 6 service wells were reported drilled by contractors classified in Missouri.<sup>2</sup>Represents West Virginia; and 1 gas well drilled by contractors classified in Maryland, 10 gas wells drilled by contractors classified in Virginia, and 1 dry hole drilled by contractors classified in Florida.<sup>3</sup>Only 2 gas wells and 8 dry holes were reported drilled by contractors classified in Tennessee.<sup>4</sup>Only 1 dry hole was reported drilled by contractors classified in Idaho.<sup>5</sup>Represents California; and 1 oil well and 7 dry holes drilled by contractors classified in Washington.<sup>6</sup>Represents wells drilled which were completed during the year, and includes wells completed during the year, although begun in the previous year.<sup>7</sup>Dry holes represent wells drilled and abandoned without commercial production during the year. Service wells include gas-injection, water-injection and brine-disposal wells. The distinction between dry holes and service wells was not made uniformly by all contractors, hence, the combined figures for dry holes and service wells in a State are somewhat more significant than the separate figures for each class.<sup>8</sup>Represents only the tangible costs specified; respondents were asked to exclude taxes, interest on investment, overhead costs, etc.; and to exclude costs for work or equipment furnished by oil and gas companies and not covered by the receipts for contract work. Represents only costs as reported by the contractor who drilled the well. Excludes payments made directly to other types of contractors by operators of oil and gas field properties.



Borne by Drilling Contractors in Drilling and Equipping Wells Drilled on Contract  
and for Divisions and States: 1958-Continued

West South Central					Mountain						Pacific
Total	Arkansas	Louisiana	Oklahoma	Texas	Total	Wyoming	Colorado	New Mexico	Utah	Montana and Idaho <sup>4</sup>	
22,576	396	3,248	4,994	13,938	3,553	723	870	1,298	416	246	1,093
13,377	239	1,742	3,011	8,385	1,677	386	216	741	215	119	622
1,572	9	418	222	923	572	60	35	351	110	16	34
6,975	144	1,055	1,467	4,309	1,263	261	596	205	90	111	428
652	4	33	294	321	41	16	23	1	1	...	9
100,909	1,395	25,485	15,747	58,282	17,872	3,684	4,431	6,096	2,404	1,257	5,674
56,052	745	12,605	8,883	33,819	8,295	1,958	1,154	3,348	1,297	538	3,169
10,187	45	3,717	1,100	5,325	2,772	299	142	1,604	603	124	192
33,766	595	9,055	5,294	18,822	6,703	1,380	3,081	...	504	595	2,299
904	10	108	470	316	102	47	54	1,144	...	...	14
4,470	3,522	7,846	3,153	4,182	5,030	5,094	5,093	4,697	5,779	5,112	5,191
4,190	3,119	7,236	2,950	4,033	4,947	5,072	5,343	4,519	6,032	4,525	5,095
6,480	4,948	8,893	4,953	5,770	4,846	4,981	4,044	4,570	5,480	7,781	5,642
4,841	4,131	8,583	3,609	4,368	5,307	...	5,170	...	...	5,357	5,371
1,386	2,500	3,266	1,600	983	2,487	5,150	2,333	5,555	5,544	xxx	1,583
441,902	3,792	156,175	60,085	221,850	80,991	21,495	11,164	29,538	14,365	4,429	33,718
19.6	9.6	48.1	12.0	15.9	22.8	29.7	12.8	22.8	34.5	18.0	30.8
4.38	2.72	6.13	3.82	3.81	4.53	5.84	2.52	4.84	5.98	3.52	5.94
241,050	1,846	79,670	31,747	127,787	39,554	11,158	3,130	14,618	8,464	2,184	19,557
18.0	7.7	45.7	10.5	15.2	23.6	28.9	14.5	19.7	39.4	18.4	31.4
4.30	2.48	6.32	3.57	3.78	4.77	5.70	2.71	4.37	6.53	4.06	6.17
54,367	273	24,003	6,171	23,920	14,532	2,509	568	8,478	2,691	286	805
34.6	30.3	57.4	27.8	25.9	25.4	41.8	16.2	24.2	24.5	17.9	23.7
5.34	6.13	6.46	5.61	4.49	5.24	8.40	4.01	5.29	4.46	2.30	4.20
144,040	1,629	52,143	20,970	69,298	26,606	97,828	7,350	96,442	93,210	1,959	13,303
20.7	11.3	49.4	14.3	16.1	21.1	928.3	12.3	931.3	935.3	17.6	31.1
4.27	2.74	5.76	3.96	3.68	3.97	95.49	2.39	95.63	96.36	3.29	5.79
2,445	44	359	1,197	845	299	(9)	116	(9)	(9)	...	53
3.8	11.0	10.9	4.1	2.6	7.3	(9)	5.0	(9)	(9)	xxx	5.9
2.71	4.40	3.33	2.54	2.68	2.93	(9)	2.16	(9)	(9)	xxx	3.72
426,863	3,622	149,355	59,078	214,808	76,919	20,373	9,774	28,272	14,228	4,272	32,588
231,972	1,756	75,863	31,161	123,192	38,029	10,819	2,865	13,879	8,361	2,105	19,137
53,019	273	23,171	6,120	23,455	14,020	2,402	546	8,107	2,687	278	786
139,484	1,549	49,967	20,632	67,336	24,620	7,152	6,363	6,286	3,180	1,889	12,612
2,388	44	354	1,165	825	250	...	...	...	...	...	53
424,787	3,522	148,935	58,906	213,424	76,746	20,310	9,671	28,265	14,228	4,272	32,566
230,792	1,660	75,702	30,996	122,434	37,893	10,778	2,777	13,872	8,361	2,105	19,126
52,555	273	23,043	6,120	23,119	14,020	2,402	546	8,107	2,687	278	785
139,058	1,545	49,836	20,627	67,050	24,583	7,130	6,348	6,286	3,180	1,889	12,602
2,382	44	354	1,163	821	250	...	...	...	...	...	53
1,407	83	355	107	862	12,173	12,63	12,103	12.7	...	...	12,22
727	79	114	100	434	12,136	12,41	12,88	12.7	...	...	12,11
255	...	110	...	145	...	...	...	...	...	...	1
419	4	131	5	279	37	22	15	...	...	...	10
6	...	...	2	4	...	...	...	...	...	...	...
669	17	65	65	522	(12)	(12)	(12)	(12)	...	...	(12)
453	17	47	65	324	(12)	(12)	(12)	(12)	...	...	(12)
209	...	18	...	191	...	...	...	...	...	...	...
7	...	...	...	7	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
15,039	170	6,820	1,007	7,042	4,072	1,122	1,390	1,266	137	157	1,130
9,078	90	3,807	586	4,595	1,525	339	265	739	103	79	420
1,348	...	832	51	465	512	107	22	371	4	8	19
4,556	80	2,176	338	1,962	1,986	...	...	156	30	70	691
57	...	5	32	20	49	676	1,103	...	...	...	...

<sup>9</sup>Figures for service wells are included with those for dry holes.<sup>10</sup>Represents the cost of labor, supplies, water, fuel, and power used in such operations as: Moving on to location all equipment and supplies incidental to operations; excavating for and building derrick foundations; digging slush pits; erecting and wiring derricks; building loading and pipe racks; laying fuel and water lines; rigging up; drilling hole; making straight-hole tests and surveys; coring; testing formations; mud conditioning; reaming; running casing, screen, and liner; cleaning out, bailing, and swabbing; fishing; repairing and maintaining rig and derrick; tearing down rig; dismantling derrick and racks; and moving equipment off location. It includes tool charges and rentals, but excludes the value of materials salvaged after use and the cost of the drilling derrick if it was left over well for production after completion.<sup>11</sup>Includes the cost of delivering and installing equipment. Excludes the value of equipment that was salvaged and used again but includes the cost of salvaging.<sup>12</sup>Figures for equipment for flowing and pumping and production derrick are included with those for casing.<sup>13</sup>See footnote 11. Includes tubing, wellhead fittings, gas traps, flow tanks, etc., drilling derricks retained over well after completion, and special production derricks.

Table 7.—Supplies Used in the Oil and Gas Field Services Industries: 1958 and 1954

(Detailed figures for the quantity and cost of supplies used were not obtained for these industries. For the total cost of supplies used, and the quantity and cost of gas purchased for gas lift and repressuring, see table 3B. For the quantity and total cost of purchased fuels and electricity used, and for the quantity of crude petroleum and natural gas produced and used for fuel, see tables 3A and 3B)

Table 8.—General Statistics for Establishments Classified by Output per Man-hour: 1958

(Not applicable for these industries)

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining for the United States: 1958

Ind. code	Industry or subindustry and ratio of payroll to value added in mining <sup>1</sup>	Number of establishments	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1381	DRILLING OIL AND GAS WELLS:									
	All establishments, total.....	3,064	59,411	289,243	52,274	109,470	239,328	587,440	904,939	102,018
	Less than 0.10.....	21	118	207	103	115	174	2,757	3,732	516
	0.10-0.19.....	74	757	2,981	705	1,174	2,758	17,871	21,163	3,615
	0.20-0.29.....	267	4,060	19,467	3,710	7,572	16,934	75,116	91,476	16,331
	0.30-0.39.....	456	7,685	33,161	6,967	13,804	28,877	95,710	126,048	12,401
	0.40-0.49.....	602	13,481	67,516	11,968	25,637	56,311	151,670	217,471	23,688
	0.50-0.59.....	554	12,539	63,069	11,097	23,720	52,384	114,656	175,883	15,013
	0.60-0.69.....	346	8,211	41,572	7,020	15,350	33,455	64,249	114,643	7,989
	0.70-0.79.....	188	4,832	25,002	4,194	9,400	20,433	33,792	66,952	10,097
	0.80-0.89.....	114	2,892	13,989	2,514	5,258	11,486	16,620	37,479	3,838
	0.90-0.99.....	53	1,144	4,792	994	1,782	3,829	5,097	12,325	2,569
	1.00 and over.....	240	2,945	14,035	2,486	4,858	11,025	10,573	31,837	4,326
	Undistributed <sup>2</sup> .....	149	747	3,452	516	800	1,662	( <sup>3</sup> )	5,930	1,635
1382	OIL AND GAS EXPLORATION SERVICES:									
	All establishments, total.....	347	9,557	43,649	7,559	16,695	31,115	64,353	87,215	7,082
	Less than 0.10.....	9	11	25	9	10	19	397	459	15
	0.10-0.19.....	8	13	60	13	22	59	357	427	16
	0.20-0.29.....	23	76	280	73	140	260	1,136	1,362	54
	0.30-0.39.....	45	460	2,140	407	935	1,897	5,838	6,868	197
	0.40-0.49.....	71	1,019	4,698	911	2,241	4,054	10,331	13,588	689
	0.50-0.59.....	49	1,150	5,158	923	2,217	3,850	9,379	11,832	1,232
	0.60-0.69.....	39	2,293	9,152	1,744	3,271	6,152	14,439	19,605	1,099
	0.70-0.79.....	19	764	3,882	689	1,619	3,315	5,141	7,094	649
	0.80-0.89.....	18	1,209	5,716	947	2,121	3,937	6,665	8,567	1,467
	0.90-0.99.....	13	1,149	5,871	739	1,926	3,170	6,136	9,742	835
	1.00 and over.....	35	1,282	5,851	1,101	2,188	4,389	4,409	7,407	810
	Undistributed <sup>2</sup> .....	18	131	816	3	5	13	125	264	19
1389	OIL AND GAS FIELD SERVICES, NEC:									
	All establishments, total.....	2,504	47,278	228,023	38,212	86,060	166,926	455,994	633,729	42,212
	Less than 0.10.....	30	121	109	111	65	105	1,757	2,132	54
	0.10-0.19.....	116	371	1,148	355	715	1,121	6,962	9,192	909
	0.20-0.29.....	244	800	2,699	729	1,350	2,448	10,570	13,652	881
	0.30-0.39.....	372	7,981	44,576	6,637	16,280	32,398	122,637	171,536	11,191
	0.40-0.49.....	459	10,504	50,398	7,792	16,428	33,577	117,515	135,426	7,312
	0.50-0.59.....	462	11,366	51,816	9,413	20,948	39,202	94,513	118,474	7,526
	0.60-0.69.....	294	8,661	42,526	7,312	18,031	34,138	66,244	119,765	10,405
	0.70-0.79.....	119	3,213	15,584	2,678	5,820	11,956	20,932	38,003	3,011
	0.80-0.89.....	75	1,253	4,724	1,132	2,220	4,161	5,613	8,887	272
	0.90-0.99.....	35	964	4,448	854	1,854	3,685	4,751	7,500	279
	1.00 and over.....	164	1,280	4,665	1,161	2,270	4,007	3,716	7,926	308
	Undistributed <sup>2</sup> .....	134	784	5,330	38	79	128	784	1,236	64
	Survey, log, cement services subindustry:									
	All establishments, total.....	199	12,081	74,857	8,180	20,782	45,186	167,391	220,829	11,714
	Less than 0.10.....	1	4	3	4	2	3	36	43	5
	0.10-0.19.....	9	22	45	21	36	43	358	430	18
	0.20-0.29.....	16	47	214	46	119	209	888	1,223	39
	0.30-0.39.....	45	5,162	32,679	4,375	11,731	23,983	87,923	129,782	7,616
	0.40-0.49.....	35	3,914	23,891	2,125	4,936	11,658	57,441	62,914	1,570
	0.50-0.59.....	37	1,187	7,073	785	1,921	4,738	12,750	15,182	1,974
	0.60-0.69.....	25	380	1,977	276	685	1,407	3,095	3,674	166
	0.70-0.79.....	7	303	1,977	243	616	1,621	2,757	3,289	124
	0.80-0.89.....	5	68	353	67	135	349	410	995	...
	0.90-0.99.....	3	116	691	88	225	428	722	978	44
	1.00 and over.....	8	172	982	150	376	746	933	2,230	151
	Undistributed <sup>2</sup> .....	8	706	4,972	...	...	1	78	89	7

See footnotes at end of table.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining for the United States: 1958—Continued

Ind. code	Industry or subindustry and ratio of payroll to value added in mining <sup>1</sup>	Number of establishments	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
	Miscellaneous oil and gas field services subindustry:									
	All establishments, total.....	2,305	35,197	153,166	30,032	65,278	121,740	288,603	412,900	30,498
	Less than 0.10.....	29	117	106	107	63	102	1,721	2,089	49
	0.10-0.19.....	107	349	1,103	334	679	1,078	6,604	8,762	891
	0.20-0.29.....	228	753	2,485	683	1,231	2,239	9,682	12,429	842
	0.30-0.39.....	327	2,819	11,897	2,262	4,549	8,415	34,714	41,754	3,575
	0.40-0.49.....	424	6,590	26,507	5,667	11,492	21,919	60,074	72,512	5,742
	0.50-0.59.....	425	10,179	44,743	8,628	19,027	34,464	81,763	103,292	5,552
	0.60-0.69.....	269	8,281	40,549	7,036	17,346	32,731	63,149	116,091	10,239
	0.70-0.79.....	112	2,910	13,607	2,435	5,204	10,335	18,175	34,714	2,887
	0.80-0.89.....	70	1,165	4,371	1,065	2,085	3,812	5,203	7,892	272
	0.90-0.99.....	32	848	3,757	766	1,629	3,257	4,029	6,522	235
	1.00 and over.....	156	1,108	3,683	1,011	1,894	3,261	2,783	5,696	157
	Undistributed <sup>2</sup> .....	126	78	358	38	79	127	706	1,147	57

<sup>1</sup>Note that in computing these ratios subcontract employment serving the establishments is excluded. The cost of subcontract work in 1958 amounted to 18 percent of payroll for the Drilling Oil and Gas Wells Industry, to 8 percent for the Oil and Gas Exploration Services Industry, and to 4 percent for the Oil and Gas Field Services, NEC Industry.

<sup>2</sup>Represents establishments with zero or negative value added; establishments with no employees; and, for number of employees and payroll, includes figures for separately reported central offices and related facilities.

<sup>3</sup>Not shown since cost of supplies, purchased fuels and electricity, contract work, and purchased machinery exceeds value of shipments and receipts plus capital expenditures.

Table 10.—Value Added in Mining Per Employee by Size of Establishment for the United States: 1958

Ind. code	Industry and value added per employee class <sup>1</sup>	Number of--		Number of establishments with average employment of--						
		Establishments	Employees	0-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1381	DRILLING OIL AND GAS WELLS, TOTAL.....	3,064	59,411	2,244	557	192	58	9	3	1
	Less than \$3,000.....	332	3,075	297	29	5	1	...	...	...
	\$3,000-\$3,999.....	200	2,963	157	30	9	4	...	...	...
	\$4,000-\$4,999.....	263	3,396	220	37	4	2	...	...	...
	\$5,000-\$5,999.....	281	5,220	203	65	6	6	1	...	...
	\$6,000-\$6,999.....	256	5,001	181	50	20	5	...	...	...
	\$7,000-\$7,999.....	247	4,059	179	49	18	1	...	...	...
	\$8,000-\$8,999.....	245	5,561	159	56	25	4	1	...	...
	\$9,000-\$9,999.....	205	4,977	140	43	15	6	...	...	1
	\$10,000-\$12,499.....	334	8,606	218	69	33	11	2	1	...
	\$12,500-\$14,999.....	231	6,822	141	57	21	10	2	...	...
	\$15,000-\$17,499.....	131	4,633	71	36	16	6	1	1	...
	\$17,500-\$19,999.....	76	1,281	52	18	6	...	...	...	...
	\$20,000 and over.....	128	3,181	97	13	13	2	2	1	...
	Negative value added.....	72	474	66	5	1	...	...	...	...
	No employees.....	63	...	63	...	...	...	...	...	...
	Central offices and related facilities....	...	162	...	...	...	...	...	...	...
1382	OIL AND GAS EXPLORATION SERVICES, TOTAL.....	347	9,557	271	37	20	14	2	2	1
	Less than \$3,000.....	20	76	20	...	...	...	...	...	...
	\$3,000-\$3,999.....	17	1,167	12	3	...	...	1	1	...
	\$4,000-\$4,999.....	24	988	15	6	1	1	1	...	...
	\$5,000-\$5,999.....	24	2,346	16	3	2	1	...	1	1
	\$6,000-\$6,999.....	43	1,271	29	9	2	3	...	...	...
	\$7,000-\$7,999.....	33	1,236	20	3	6	4	...	...	...
	\$8,000-\$8,999.....	29	699	22	2	3	2	...	...	...
	\$9,000-\$9,999.....	18	426	11	5	1	1	...	...	...
	\$10,000-\$12,499.....	54	708	46	3	4	1	...	...	...
	\$12,500-\$14,999.....	28	341	24	2	1	1	...	...	...
	\$15,000-\$17,499.....	13	85	12	1	...	...	...	...	...
	\$17,500-\$19,999.....	5	18	5	...	...	...	...	...	...
	\$20,000 and over.....	21	65	21	...	...	...	...	...	...
	Negative value added.....	3	6	3	...	...	...	...	...	...
	No employees.....	15	...	15	...	...	...	...	...	...
	Central offices and related facilities....	...	125	...	...	...	...	...	...	...

See footnotes at end of table.

Table 10.-Value Added in Mining Per Employee by Size of Establishment for the United States: 1958-Continued

Ind. Code	Industry and value added per employee class <sup>1</sup>	Number of--		Number of establishments with average employment of--						
		Establish- ments	Employees	0-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1389	OIL AND GAS FIELD SERVICES, NEC.,									
	TOTAL.....	2,504	47,278	2,093	307	65	26	3	4	6
	Less than \$3,000.....	268	2,308	238	24	4	2			
	\$3,000-\$3,999.....	183	1,996	155	24	4				
	\$4,000-\$4,999.....	238	3,145	191	34	12	1			
	\$5,000-\$5,999.....	267	4,461	211	39	10	7			
	\$6,000-\$6,999.....	226	3,987	163	47	11	5			
	\$7,000-\$7,999.....	236	3,278	183	44	7	2			
	\$8,000-\$8,999.....	156	3,309	125	24	3	2		2	
	\$9,000-\$9,999.....	151	5,122	123	23	1	2			2
	\$10,000-\$12,499.....	273	6,891	228	31	7	2	2	1	2
	\$12,500-\$14,999.....	129	5,184	114	7	4	2	1		1
	\$15,000-\$17,499.....	91	5,432	85	4		1			1
	\$17,500-\$19,999.....	44	918	40	2	1			1	
	\$20,000 and over.....	117	477	112	4	1				
	Negative value added.....	7	28	7						
	No employees.....	118		118						
	Central offices and related facilities.....		742							
	Survey, log, cement services sub- industry, total.....	199	12,081	166	19	8	2	2		2
	Less than \$3,000.....	5	28	5						
	\$3,000-\$3,999.....	2	18	2						
	\$4,000-\$4,999.....	5	36	5						
	\$5,000-\$5,999.....	14	236	12	1		1			
	\$6,000-\$6,999.....	11	244	7	2	2				
	\$7,000-\$7,999.....	13	169	10	3					
	\$8,000-\$8,999.....	16	243	11	4	1				
	\$9,000-\$9,999.....	19	414	15	2	1	1			
	\$10,000-\$12,499.....	40	1,229	30	5	3		2		
	\$12,500-\$14,999.....	25	3,601	23	1					1
	\$15,000-\$17,499.....	16	5,005	14	1					1
	\$17,500-\$19,999.....	9	106	8		1				
	\$20,000 and over.....	16	46	16						
	No employees.....	8		8						
	Central offices and related facilities.....		706							
	Miscellaneous oil and gas field services subindustry, total.....	2,305	35,197	1,927	288	57	24	1	4	4
	Less than \$3,000.....	263	2,280	233	24	4	2			
	\$3,000-\$3,999.....	181	1,978	153	24	4				
	\$4,000-\$4,999.....	233	3,109	186	34	12	1			
	\$5,000-\$5,999.....	253	4,225	199	38	10	6			
	\$6,000-\$6,999.....	215	3,743	156	45	9	5			
	\$7,000-\$7,999.....	223	3,109	173	41	7	2			
	\$8,000-\$8,999.....	140	3,066	114	20	2	2		2	
	\$9,000-\$9,999.....	132	4,708	108	21		1			2
	\$10,000-\$12,499.....	233	5,662	198	26	4	2		1	2
	\$12,500-\$14,999.....	104	1,583	91	6	4	2	1		
	\$15,000-\$17,499.....	75	427	71	3		1			
	\$17,500-\$19,999.....	35	812	32	2				1	
	\$20,000 and over.....	101	431	96	4	1				
	Negative value added.....	7	28	7						
	No employees.....	110		110						
	Central offices and related facilities.....		36							

<sup>1</sup>See Table 9, footnote 1.



Table 11.—Hourly Earnings of Production and Development Workers for Establishments with 10 or More Employees, by Divisions: 1958

Ind. code	Industry or subindustry by hourly earnings classes	Number of--		Number of establishments with 10 or more employees in--								
		Estab-lish-ments	Employ-ees <sup>1</sup>	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun-tain	Pacific
1381	DRILLING OIL AND GAS WELLS, TOTAL..	1,496	53,127	...	19	123	124	29	62	921	158	60
	Less than \$1.49.....	117	3,047	...	2	8	5	15	20	62	4	1
	\$1.50-\$1.99.....	402	11,587	...	5	45	41	10	14	270	16	1
	\$2.00-\$2.49.....	653	25,273	...	7	55	66	3	18	429	71	4
	\$2.50-\$2.99.....	210	9,206	...	5	12	10	1	7	112	46	17
	\$3.00-\$3.49.....	82	3,098	...	...	3	2	...	2	32	14	29
	\$3.50-\$3.99.....	18	559	...	...	...	...	...	1	6	4	7
	\$4.00 and over.....	8	165	...	...	...	...	...	...	6	1	1
	No production and development workers.....	6	192	...	...	...	...	...	...	4	2	...
1382	OIL AND GAS EXPLORATION SERVICES, TOTAL.....	135	8,764	...	...	5	7	...	7	85	26	5
	Less than \$1.49.....	23	1,585	...	...	1	1	...	2	15	4	...
	\$1.50-\$1.99.....	67	5,004	...	...	2	2	...	5	43	14	1
	\$2.00-\$2.49.....	25	1,725	...	...	1	1	...	...	17	5	1
	\$2.50-\$2.99.....	10	204	...	...	...	...	...	...	5	2	3
	\$3.00-\$3.49.....	7	162	...	...	...	1	...	...	5	1	...
	\$3.50-\$3.99.....	3	84	...	...	1	2	...	...	...	...	...
1389	OIL AND GAS FIELD SERVICES, NEC, TOTAL.....	807	41,069	...	5	31	64	3	29	557	65	53
	Less than \$1.49.....	187	5,777	...	2	8	7	...	8	149	9	4
	\$1.50-\$1.99.....	334	13,597	...	3	15	40	2	12	229	25	8
	\$2.00-\$2.49.....	158	16,702	...	...	4	13	1	5	106	25	4
	\$2.50-\$2.99.....	63	3,332	...	...	3	3	...	1	34	3	19
	\$3.00-\$3.49.....	35	862	...	...	1	...	...	1	19	2	12
	\$3.50-\$3.99.....	16	516	...	...	...	...	...	2	8	...	6
	\$4.00 and over.....	10	200	...	...	...	1	...	...	8	1	...
	No production and development workers.....	4	83	...	...	...	...	...	...	4	...	...
	Survey, log, cement services subindustry, total.....	58	10,911	...	1	4	5	...	...	40	2	6
	Less than \$1.49.....	7	125	...	...	...	1	...	...	4	...	2
	\$1.50-\$1.99.....	20	639	...	1	2	2	...	...	14	1	...
	\$2.00-\$2.49.....	13	8,769	...	...	...	1	...	...	11	1	...
	\$2.50-\$2.99.....	13	1,238	...	...	2	1	...	...	7	...	3
	\$3.00-\$3.49.....	3	50	...	...	...	...	...	...	3	...	...
	\$3.50-\$3.99.....	2	90	...	...	...	...	...	...	1	...	1
	Miscellaneous oil and gas field services subindustry, total.....	749	30,158	...	4	27	59	3	29	517	63	47
	Less than \$1.49.....	180	5,652	...	2	8	6	...	8	145	9	2
	\$1.50-\$1.99.....	314	12,958	...	2	13	38	2	12	215	24	8
	\$2.00-\$2.49.....	145	7,933	...	...	4	12	1	5	95	24	4
	\$2.50-\$2.99.....	50	2,094	...	...	1	2	...	1	27	3	16
	\$3.00-\$3.49.....	32	812	...	...	1	...	...	1	16	2	12
	\$3.50-\$3.99.....	14	426	...	...	...	...	...	2	7	...	5
	\$4.00 and over.....	10	200	...	...	...	1	...	...	8	1	...
	No production and development workers.....	4	83	...	...	...	...	...	...	4	...	...

<sup>1</sup>Excludes figures for separately reported central offices and related facilities.

Table 12.—Distribution of Service Companies by Employment Size and by Number of Establishments for the United States: 1958

Ind. code	Industry by establishment count	Number of--			Number of establishments with average employment of--								
		Service companies	Estab-lish-ments	Employ-ees <sup>1</sup>	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1381	DRILLING OIL AND GAS WELLS, TOTAL.....	2,911	3,064	59,249	989	579	676	557	192	58	9	3	1
	Multiunit companies, total....	325	478	19,235	94	61	107	111	60	34	8	3	...
	1 establishment <sup>2</sup> .....	214	214	12,149	29	24	43	57	29	22	7	3	...
	2 establishments.....	87	174	3,916	48	25	37	38	23	3	...	...	...
	3 or 4 establishments.....	20	65	2,279	17	7	15	11	7	8	...	...	...
	5 or 6 establishments.....	2	10	891	...	1	5	3	...	...	1	...	...
	7-9 establishments.....	2	15	...	...	4	7	2	1	1	...	...	...
	Single unit companies.....	2,586	2,586	40,014	895	518	569	446	132	24	1	...	1
1382	OIL AND GAS EXPLORATION SERVICES, TOTAL.....	329	347	9,432	157	55	59	37	20	14	2	8	1
	Multiunit companies, total....	34	52	3,559	12	5	12	8	6	6	1	2	...
	1 establishment <sup>2</sup> .....	21	21	2,431	2	...	4	4	4	5	1	1	...
	2 establishments.....	9	18	341	6	3	4	4	...	1	...	...	...
	3 or 4 establishments.....	4	13	787	4	2	4	...	2	...	...	1	...
	Single unit companies.....	295	295	5,873	145	50	47	29	14	8	1	...	1
1389	OIL AND GAS FIELD SERVICES, NEC, TOTAL.....	2,456	2,504	46,536	1,244	453	396	307	65	26	3	4	6
	Multiunit companies, total....	107	155	21,832	46	12	28	31	12	14	3	3	6
	1 establishment <sup>2</sup> .....	82	82	10,552	19	7	14	16	7	11	2	3	3
	2 establishments.....	20	40	10,591	11	5	7	9	2	2	1	...	3
	3 or 4 establishments.....	3	10	...	2	...	1	3	3	1	...	...	...
	7-9 establishments.....	1	9	689	1	...	5	3	...	...	...	...	...
	10-14 establishments.....	1	14	...	13	...	1	...	...	...	...	...	...
	Single unit companies.....	2,349	2,349	24,704	1,198	441	368	276	53	12	...	1	...
	Survey, log, cement services subindustry, total.....	182	199	11,375	104	37	25	19	8	2	2	...	2
	Multiunit companies, total..	16	33	9,868	15	3	1	4	4	2	2	...	2
	1 establishment <sup>2</sup> .....	12	12	5,823	1	2	...	2	3	2	1	...	1
	2 establishments.....	2	4	...	1	1	...	...	...	...	1	...	1
	3 or 4 establishments.....	1	3	4,045	...	...	...	2	1	...	...	...	...
	10-14 establishments.....	1	14	...	13	...	1	...	...	...	...	...	...
	Single unit companies.....	166	166	1,507	89	34	24	15	4	...	...	...	...
	Miscellaneous oil and gas field services subindustry, total.....	2,276	2,305	35,161	1,140	416	371	288	57	24	1	4	4
	Multiunit companies, total..	93	122	11,964	31	9	27	27	8	12	1	3	4
	1 establishment <sup>2</sup> .....	74	74	10,674	19	5	14	15	4	9	1	3	4
	2 establishments.....	16	32	...	9	4	7	8	2	2	...	...	...
	3 or 4 establishments.....	2	7	1,290	2	...	1	1	2	1	...	...	...
	7-9 establishments.....	1	9	...	1	...	5	3	...	...	...	...	...
	Single unit companies.....	2,183	2,183	23,197	1,109	407	344	261	49	12	...	1	...

<sup>1</sup>Excludes figures for separately reported central offices and related facilities.<sup>2</sup>Represents companies having at least one establishment classified in other industries or subindustries.



## Nonmetallic Minerals (Except Fuels) Mining

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Major Group 14, Nonmetallic Minerals (Except Fuels) Mining. The separate industries included in this major group and the reports in which they appear are:

### MIC58(1)-14B--Stone

1411--Dimension stone

1421--Crushed and broken stone, including riprap

### MIC58(1)-14C--Sand and Gravel

1441--Sand and gravel

### MIC58(1)-14D--Clay, Ceramic, and Refractory Minerals

1452--Bentonite

1453--Fire clay

1454--Fuller's earth

1455--Kaolin and ball clay

1456--Feldspar

1457--Magnesite and brucite

1459--Clay, ceramic, and refractory minerals, nec

### MIC58(1)-14E--Chemical and Fertilizer Mineral Mining

1472--Barite

1473--Fluorspar

1474--Potash, soda, and borate minerals

1475--Phosphate rock

1476--Rock salt

1477--Sulfur

1479--Chemical and fertilizer minerals mining, nec

### MIC58(1)-14F--Nonmetallic Minerals (Except Fuels) Services and Miscellaneous Nonmetallic Minerals

1481--Nonmetallic minerals stripping services

1482--Nonmetallic minerals services, except stripping

1492--Gypsum

1493--Mica

1494--Native asphalt and bitumens

1495--Pumice and pumicite

1496--Talc, soapstone, and pyrophyllite

1497--Natural abrasives, except sand

1499--Miscellaneous nonmetallic minerals, nec

In addition to the industries listed above, separate subindustry figures are presented for the "Dimension Limestone," "Dimension Granite," "Dimension Stone, NEC," "Crushed and Broken Limestone," "Crushed and Broken Granite," "Crushed and Broken Stone, NEC," "Common Sand and Gravel," "Glass Sand," "Molding Sand," "Pyrites," "Elemental Sulfur," "Miscellaneous Chemical-Fertilizer Minerals," "Asbestos," "Diatomite," "Perlite," "Vermiculite, Greensand, and Other Minerals" subindustries and for service subindustries in which establishments are classified on the basis of the primary industry served.

The Nonmetallic Minerals Mining Industries represent establishments primarily engaged in mining or quarrying, developing mines, or exploring for nonmetallic minerals, except fuels. Also included are certain well and brine operations, and primary preparation plants such as those engaged in crushing, grinding, washing, or other concentration.

The manufacture of cement and lime, and the cutting and finishing of stone and stone products (exclusive of associated quarry operations), the manufacture of brick and other structural clay products (including the operation of associated clay pits), and establishments primarily engaged in grinding, pulverizing, or otherwise treating certain earths, rocks, and minerals, and which are not directly associated with the mining activity, are classified in Major Group 32, Stone, Clay, and Glass Products.

As part of the 1958 and 1954 Censuses of Manufactures, selected separate data were collected on mine or quarry operations at cement, lime, clay products, and gypsum products plants. For dimension stone quarries operated with dressing plants, which are classified in the manufactures census, complete reports for the quarry and dressing plants essentially comparable to those for the minerals census were obtained. The statistics for all of these mining operations which are included in the Census of Manufactures are summarized in this report and included separately in the reports for the related mineral industries. Such inclusion provides statistics more nearly comparable to those available for minerals censuses prior to 1954.

The combined value of shipments and receipts in 1958 for all industries in Major Group 14 was \$1,869 million. The 1958 value of minerals produced and used in the same establishment or shipped by mines and quarries included in the manufactures census was approximately \$361 million. Hence, the approximate total value of products of all nonmetallic minerals (except fuels) operations in 1958 was \$2,230 million. The largest industry in Major Group 14 in 1958 was Crushed and Broken Stone, with value of shipments and receipts amounting to \$616 million. The next largest industry was Sand and Gravel, with value of shipments and receipts amounting to \$561 million. The value of shipments and receipts of the Chemical and Fertilizer Minerals Industries in 1958 was \$465 million, with value of shipments and receipts of the Potash, Soda, Borate Minerals Industry amounting to \$141 million, the Phosphate Rock Industry to \$132 million, and the Sulfur Industry to \$106 million. Value of shipments and receipts of the Clay and Related Minerals Industries was \$123 million, including the Kaolin and Ball Clay Industry with shipments and receipts of \$42 million. The value of shipments and receipts of the Dimension Stone Industry was \$16 million. The value of shipments and receipts of the Miscellaneous Minerals, NEC, Industries was \$81 million. In addition, mining operations included in manufacturing establishments produced and used or shipped crushed and broken stone valued at about \$139 million, dimension stone valued at \$74 million, sand and gravel valued at about \$71 million, clay valued at about \$51 million, and gypsum valued at about \$27 million.

The figures given above for mineral industries represent the gross value of shipments and receipts. Some of them contain duplication due to the inclusion of value of minerals transferred from one establishment to other establishments in the same industry for preparation

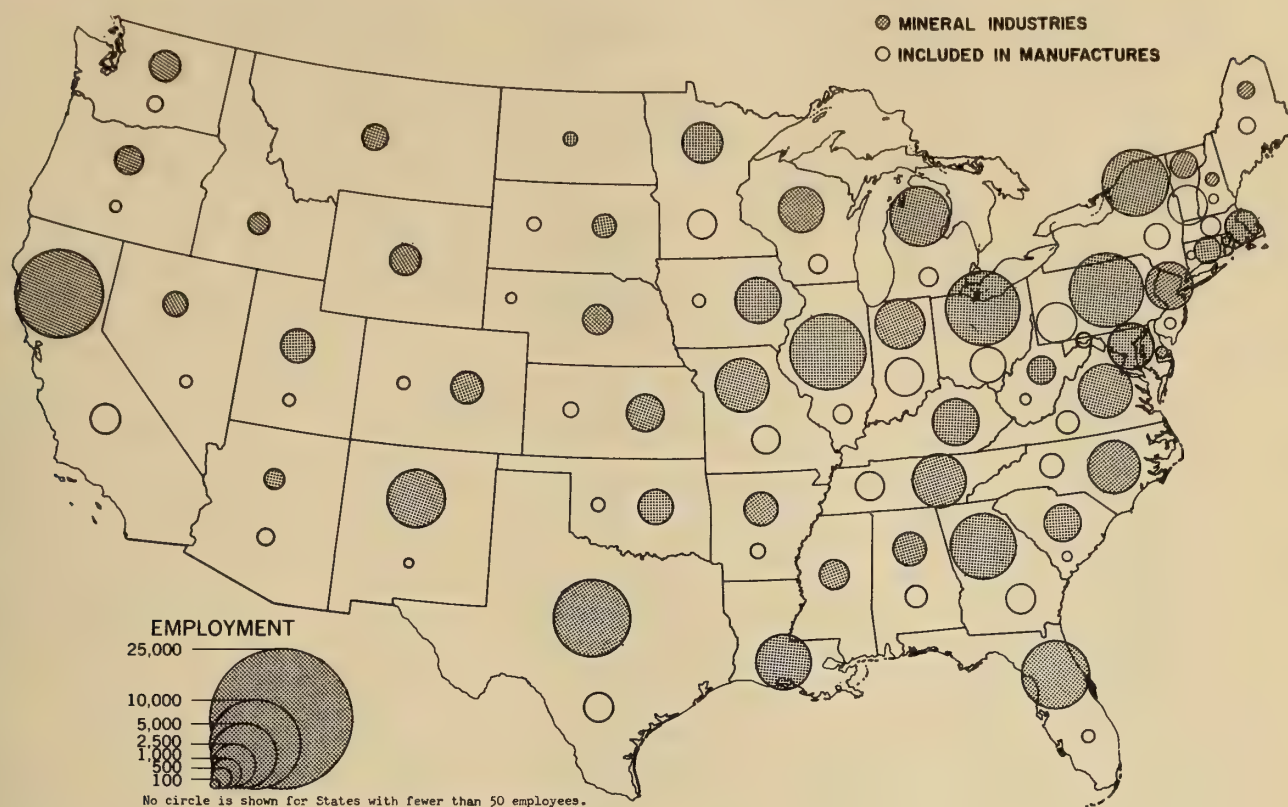
and to the inclusion of some minerals purchased for resale without further processing. In order to eliminate this duplication, net shipments and receipts figures have been derived for each industry by subtracting from the gross shipments either the value of shipments of minerals to preparation plants, or if the latter figures were not available, the cost of minerals received from other establishments for preparation. In computing net shipments, the value of shipments of products which had been purchased for resale without preparation was also subtracted. For the Nonmetallic Minerals Mining Industries as a whole, net shipments and receipts amounted to \$1,808 million. The industry in this major group most significantly affected by the adjustment for net shipments was Phosphate Rock, for which net shipments and receipts amounted to \$99 million.

This report presents in table 1 comparative general statistics for all nonmetallic mineral mining operations combined for the Census years 1880-1958. Table 2A presents general statistics by 3-digit industry groups for the United States and for geographic divisions and States. Table 2B shows some cost, capital, and product details for major nonmetallic minerals mining industries for selected divisions and States. Table 2C shows number of establishments, employment, and value added in mining by major types of operation for selected geographic areas. In table 3, detailed statistics are presented for the United States by 4-digit industries and subindustries and for similar mining operations in manufacturing establishments. Table 4 shows selected statistics for establishments classified by employment size for all nonmetallic minerals mining industries and includes the number of mining operations by employment size for the mineral industries and for mining operations in manufacturing establishments.

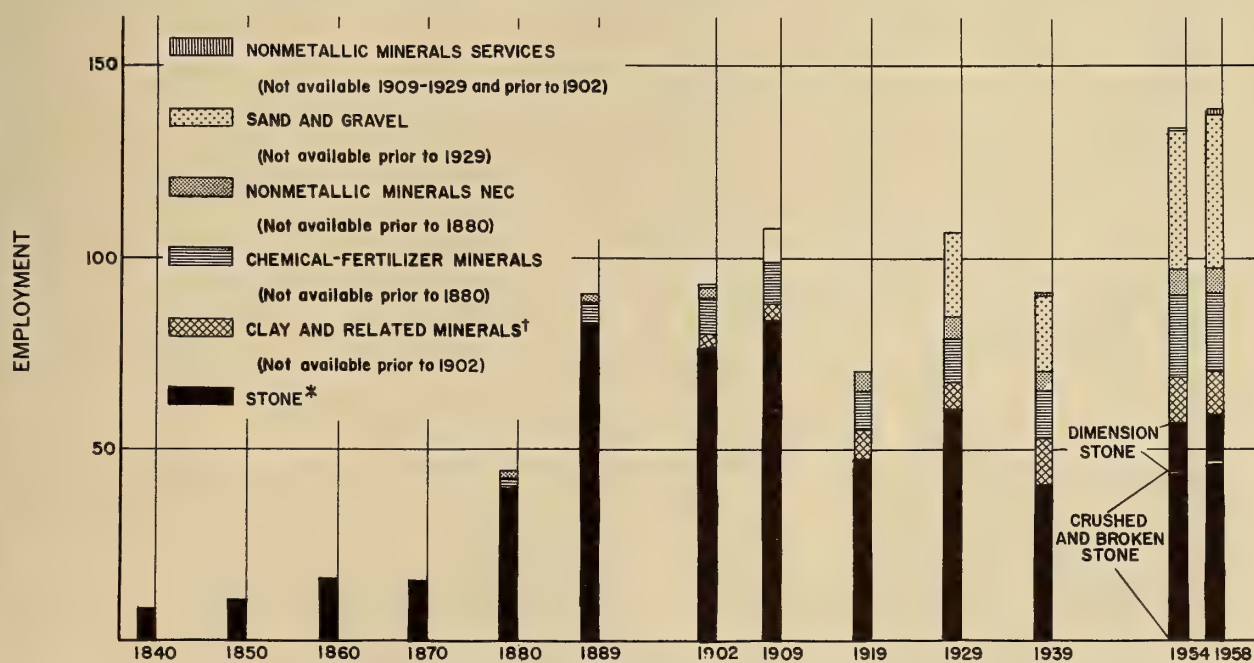


# NONMETALLIC MINERALS MINING

## Distribution of Employment by State: 1958



## Employment, Including Mining in Manufactures: 1840-1958



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

\* For 1939, excludes dimension stone dressing plants at quarries. For 1919 and 1909, excludes stone quarries operated as parts of cement and lime plants.

† Prior to 1939, excludes common clay and shale pits.





Table 1.—General Statistics for Nonmetallic Minerals Mining Operations in the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction. For more detailed historical statistics for these operations, see Table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. I. For all years prior to 1939, excludes contract service operations)

Kind of operation and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)		Selected expenses (\$1,000)				Value of shipments and receipts <sup>1</sup> (\$1,000)	Capital expenditures (\$1,000)	Energy used (kwh equivalent) (million)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			Supplies, purchases for resale, and purchased fuels and electricity	Minerals received for preparation	Contract work	Purchased machinery installed			
Mineral industries only:																	
1958.....	6,137	7,306	1,427	116,812	546,902	95,364	202,446	409,596	1,384,425	441,564	50,218	51,898	129,506	2,229,605	1,807,622	188,998	48,455
1954.....	6,623	8,074	1,311	113,428	450,020	97,081	214,799	363,604	1,181,986	326,621	43,165	45,386	132,102	1,822,293	1,522,755	147,068*	43,792
Including operations in manufactures:																	
All operations:																	
1958.....	17,256	8,872	1,676	137,717	633,306	115,095	241,356	488,911	1,683,904	250,481	52,144	252,758	313,820	2,229,605	2,162,744	319,502	348,934
1954.....	7,571	9,291	(NA)	133,688	521,277	116,381	254,362	430,685	1,375,622	237,189	44,677	246,020	313,875	1,822,293	1,761,957	314,977	344,394
1939 <sup>5</sup> .....	4,127	6,159	(NA)	90,400	104,655	81,287	163,824	83,014	255,702	65,071	(NA)	2,270	(NA)	(NA)	323,043	(NA)	20,200
1929 <sup>7</sup> .....	(NA)	4,004	(NA)	106,270	148,299	94,808	(NA)	116,691	318,737	86,964	(NA)	1,760	20,814	(NA)	407,461	(NA)	28,603
Excluding sand, gravel, common clay, and shale operations and stone quarries operated as parts of cement and lime plants:																	
1958.....	(NA)	3,870	1,030	89,716	412,771	73,710	153,028	307,654	1,025,961	232,729	52,144	236,710	291,278	1,400,862	1,342,601	313,960	338,093
1954.....	5,294	4,303	(NA)	87,245	339,074	76,051	164,307	276,829	918,727	246,270	44,677	231,328	286,181	1,224,293	1,173,895	3102,890	335,337
1939 <sup>5</sup> .....	2,160	6,711	(NA)	60,524	68,111	54,595	120,557	53,560	164,312	41,635	(NA)	1,465	(NA)	(NA)	207,412	(NA)	15,576
1929 <sup>7</sup> .....	(NA)	2,694	(NA)	74,209	98,655	66,714	(NA)	78,677	206,896	55,787	(NA)	1,299	12,832	(NA)	263,982	(NA)	21,735
1919.....	(NA)	2,707	(NA)	69,793	77,594	63,968	(NA)	66,332	120,283	43,270	49	1,786	(NA)	165,339	165,290	(NA)	818,341
1909 <sup>9</sup> .....	104,865	4,885	(NA)	106,992	56,697	100,644	(NA)	49,432	86,511	19,057	...	936	(NA)	106,504	106,504	(NA)	(NA)
1902 <sup>11</sup> .....	106,666	6,640	(NA)	92,220	48,886	128,566	(NA)	43,150	74,175	13,109	(NA)	227	(NA)	(NA)	87,511	(NA)	(NA)
1889.....	(NA)	(NA)	(NA)	90,489	32,797	85,551	(NA)	(NA)	50,821	8,588	(NA)	57	(NA)	(NA)	59,466	(NA)	(NA)
1880.....	(NA)	1,684	(NA)	43,853	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	20,661	(NA)	(NA)

NA Not available.

\*Revised.

<sup>1</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For net shipments in 1954, includes resales in 9 industries or parts of industries for which such resales could not be published separately. For net shipments in 1958 for "Excluding sand, gravel, common clay, and shale operations and stone quarries operated as parts of cement and lime plants," excludes a figure which could not be published separately amounting to less than \$300 thousand.

<sup>2</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.

<sup>3</sup>Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

<sup>4</sup>Excludes data for sand and gravel mining operations in manufacturing establishments. The value of sand and gravel mined and sold or used at such establishments in 1954 was \$22,784 thousand.

<sup>5</sup>Except for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing stone at such operations was \$7,913 thousand; this value has been included in the value of shipments and value added in mining.

<sup>6</sup>Represents number of mines and quarries and, for mining services industries, number of operating companies.

<sup>7</sup>Excludes data for common clay and shale and peat operations. In 1939, there were 609 such mines with products valued at \$6,341 thousand. Also excludes data for 27 nonproducing establishments.

<sup>8</sup>Excludes purchased electricity. For 1929, the quantity of purchased electricity amounted to only 3 percent of the total kwh equivalent of energy used.

<sup>9</sup>Excludes data for 19 nonproducing establishments.

<sup>10</sup>Represents the sum of the number of operating companies in individual industries or available groups of industries. Probably includes some duplication due to the same company operating in more than one industry.

<sup>11</sup>Includes data for lime plants producing lime valued at \$9,336 thousand. For 1902, data were also obtained from the operators of nonmetallic minerals mines on the average number of employees at contract service operations performed for them. The total number of such employees was reported as 592.

<sup>12</sup>Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

Table 2A.—General Statistics for Nonmetallic Minerals Mining Operations for Industry Groups, by Divisions, States, Alaska, and Hawaii: 1958 and 1954

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	1958										1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Pay-roll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
14	Nonmetallic minerals mining.....	8,872	1,677	137,717	633,306	115,095	241,356	488,911	1,683,904	<sup>1</sup> 737,203	<sup>2</sup> 229,605	<sup>3</sup> 191,502	<sup>4</sup> 133,688	<sup>4</sup> 1,375,622
	Mineral industries.....	7,306	1,427	116,812	546,902	95,364	202,446	409,596	1,384,425	673,186	1,868,613	188,998	113,428	1,181,986
	Included in manufactures.....	1,566	250	<sup>2</sup> 20,905	<sup>2</sup> 86,404	<sup>2</sup> 19,731	38,910	79,315	299,479	<sup>1</sup> 64,017	<sup>2</sup> 360,992	<sup>3</sup> 2,504	<sup>4</sup> 20,260	<sup>4</sup> 193,636
141	Dimension stone.....	557	119	12,250	44,911	10,825	20,679	36,768	67,131	26,035	89,461	3,705	12,325	61,774
	Mineral industry.....	335	26	2,306	7,121	2,055	3,690	6,067	13,076	3,989	15,864	1,201	3,224	15,155
	Included in manufactures.....	222	93	9,944	37,790	8,770	16,989	30,701	54,055	22,046	73,597	2,504	9,101	46,619
142	Crushed and broken stone.....	2,176	741	46,385	211,542	39,846	85,594	170,407	562,435	<sup>1</sup> 261,094	<sup>2</sup> 754,809	(NA)	43,758	434,646
	Mineral industry.....	1,957	644	41,404	188,401	34,865	75,632	147,266	445,788	239,008	616,076	68,720	37,471	337,611
	Included in manufactures.....	219	97	<sup>2</sup> 4,981	<sup>2</sup> 23,141	<sup>2</sup> 4,981	9,962	23,141	116,647	<sup>2</sup> 22,086	<sup>2</sup> 138,733	(NA)	<sup>2</sup> 6,287	<sup>2</sup> 103,035
144	Sand and gravel.....	4,084	509	39,589	183,345	33,171	71,562	145,460	497,864	<sup>1</sup> 190,183	<sup>2</sup> 631,485	(NA)	(NA)	(NA)
	Mineral industry.....	3,703	482	37,048	172,326	30,630	66,480	134,441	434,468	182,900	560,806	56,562	36,466	356,729
	Included in manufactures.....	381	27	<sup>2</sup> 2,541	<sup>2</sup> 11,019	<sup>2</sup> 2,541	5,082	11,019	63,396	<sup>2</sup> 7,283	<sup>2</sup> 70,679	(NA)	(NA)	(NA)
145	Clay and related minerals.....	1,202	129	11,347	46,828	9,872	20,044	37,551	128,954	<sup>1</sup> 57,840	<sup>2</sup> 173,597	(NA)	12,075	106,141
	Mineral industries.....	490	112	8,773	36,157	7,298	14,897	26,880	87,368	48,567	122,738	13,197	8,232	78,449
	Included in manufactures.....	712	17	<sup>2</sup> 2,574	<sup>2</sup> 10,671	<sup>2</sup> 2,574	5,147	10,671	41,586	<sup>1</sup> 9,273	<sup>2</sup> 50,859	(NA)	<sup>2</sup> 3,843	27,692
147	Chemical and fertilizer minerals.....	271	102	20,556	115,976	14,832	30,405	74,527	335,153	168,589	464,612	39,130	21,609	340,520
148	Nonmetallic minerals services.....	75	6	1,109	3,522	1,037	1,893	3,038	6,217	2,565	7,934	848	639	4,884
149	Miscellaneous minerals, nec.....	507	71	6,481	27,182	5,512	11,179	21,160	86,150	<sup>1</sup> 30,897	<sup>2</sup> 107,707	(NA)	6,818	67,247
	Mineral industries.....	475	55	5,616	23,399	4,647	9,449	17,377	62,355	27,568	80,583	9,340	5,787	44,957
	Included in manufactures.....	32	16	<sup>2</sup> 865	<sup>2</sup> 3,783	<sup>2</sup> 865	1,730	3,783	23,795	<sup>2</sup> 3,329	<sup>2</sup> 27,124	(NA)	<sup>2</sup> 1,029	22,290
DIVISION AND STATE														
14	New England.....	439	57	6,200	27,281	5,199	10,791	21,353	53,518	<sup>1</sup> 21,867	<sup>2</sup> 70,716	<sup>3</sup> 4,669	<sup>5</sup> 5,732	<sup>4</sup> 45,088
	Mineral industries.....	340	38	3,295	15,088	2,714	5,683	11,586	31,861	15,627	43,518	3,970	<sup>3</sup> 3,800	30,407
	Included in manufactures.....	99	19	<sup>2</sup> 2,905	<sup>2</sup> 12,193	<sup>2</sup> 2,485	5,108	9,767	21,657	<sup>1</sup> 6,240	<sup>2</sup> 27,198	<sup>3</sup> 699	<sup>4</sup> 1,932	<sup>4</sup> 14,681
141	Dimension stone.....	54	18	2,831	11,771	2,393	4,914	9,236	14,924	5,749	19,872	801	2,268	12,806
	Mineral industry.....	17	1	204	803	186	362	694	1,037	380	1,315	102	2,268	12,806
	Included in manufactures.....	37	17	2,627	10,968	2,207	4,552	8,542	13,887	5,369	18,557	699		
142	Crushed and broken stone.....	60	20	1,210	6,106	1,021	2,303	4,880	14,872	<sup>1</sup> 6,551	<sup>2</sup> 20,408	(NA)	(NA)	(NA)
	Mineral industry.....	53	19	1,094	5,574	905	2,071	4,348	11,022	6,113	16,120	1,015	(NA)	(NA)
	Included in manufactures.....	7	1	<sup>2</sup> 116	<sup>2</sup> 532	<sup>2</sup> 116	232	532	3,850	<sup>2</sup> 438	<sup>2</sup> 4,288	(NA)	(NA)	(NA)
144	Sand and gravel.....	255	13	1,529	7,083	1,243	2,518	5,420	18,104	<sup>1</sup> 7,186	<sup>2</sup> 22,987	(NA)	(NA)	(NA)
	Mineral industry.....	222	12	1,402	6,531	1,116	2,265	4,868	14,762	6,821	19,280	2,303	1,437	12,318
	Included in manufactures.....	33	1	<sup>2</sup> 127	<sup>2</sup> 552	<sup>2</sup> 127	253	552	3,342	<sup>1</sup> 365	<sup>2</sup> 3,707	(NA)	(NA)	(NA)
149	Miscellaneous minerals, nec.....	35	4	499	1,823	431	820	1,431	4,451	1,925	5,957	419	(NA)	(NA)
Maine:														
142	Dimension stone.....	5	4	217	729	202	411	655	806	392	1,170	28	317	1,494
	Crushed and broken stone (mineral industry only).....	5	1	96	371	79	201	313	606	419	990	35	<sup>9</sup> 208	<sup>9</sup> 1,888
144	Sand and gravel.....	32	...	<sup>2</sup> 125	<sup>2</sup> 355	<sup>2</sup> 108	203	337	1,077	<sup>1</sup> 458	<sup>2</sup> 1,318	(NA)	(NA)	(NA)
	Mineral industry.....	29	...	105	329	98	184	311	907	419	1,109	217	79	462
149	Miscellaneous minerals, nec.....	12	...	57	152	52	85	139	329	190	391	128	(NA)	(NA)
14	New Hampshire.....	45	4	328	1,534	282	579	1,166	2,751	<sup>1</sup> 1,396	<sup>2</sup> 3,858	<sup>3</sup> 289	<sup>4</sup> 319	<sup>4</sup> 1,913
	Mineral industries.....	38	3	234	951	200	413	708	1,977	<sup>1</sup> 1,113	<sup>2</sup> 2,866	224	266	1,658
	Included in manufactures.....	7	1	<sup>2</sup> 94	<sup>2</sup> 583	<sup>2</sup> 82	166	458	774	<sup>2</sup> 823	<sup>2</sup> 992	<sup>3</sup> 65	<sup>4</sup> 53	<sup>4</sup> 255
	Stone.....	6	1	<sup>2</sup> 99	<sup>2</sup> 608	<sup>2</sup> 86	184	480	912	<sup>1</sup> 221	<sup>2</sup> 1,063	<sup>3</sup> 70	(NA)	(NA)
144	Sand and gravel (mineral industry only).....	19	1	89	507	74	164	377	884	594	1,391	87	99	846
Vermont:														
141	Dimension stone.....	27	10	1,963	7,547	1,648	3,414	6,034	9,754	3,537	12,672	619	1,132	6,842
	Mineral industry.....	6	1	185	741	168	322	635	868	358	1,157	69	411	1,930
	Included in manufactures.....	21	9	1,778	6,806	1,480	3,092	5,399	8,886	3,179	11,515	550	721	4,912
142	Crushed and broken stone.....	6	2	158	703	135	299	555	1,686	<sup>1</sup> 1,184	2,684	186	238	2,806
	Crushed and broken limestone.....	3	1	55	180	50	127	159	308	(D)	376	(D)	(NA)	(NA)
144	Sand and gravel (mineral industry only).....	22	1	91	314	74	138	240	670	458	911	217	100	644
149	Miscellaneous minerals, nec.....	5	3	341	1,404	284	565	1,063	3,354	1,363	4,545	172	370	3,618

See footnotes at end of table.



**NONMETALLIC MINERALS (EXCEPT FUELS) MINING**

14A-7

**Table 2A.—General Statistics for Nonmetallic Minerals Mining Operations for Industry Groups, by Divisions, States, Alaska, and Hawaii: 1958 and 1954—Continued**

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	1958										1954			
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining	
		Total	With 20 or more employees	Number	Pay-roll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							(\$1,000)
14	DIVISION AND STATE—Continued														
	Nonmetallic minerals mining—Con.														
	Massachusetts.....	144	15	1,903	10,281	1,357	2,826	6,348	18,656	16,429	223,831	31,254	41,924	414,719	
142	Mineral industries.....	111	12	1,285	6,077	824	1,750	3,887	10,624	4,754	14,151	1,227	1,207	8,925	
	Included in manufactures.....	33	3	2618	23,204	2533	1,076	2,461	8,032	11,675	29,680	327	4,717	45,794	
	Crushed and broken stone.....	24	8	450	2,291	400	889	1,964	6,640	12,034	28,335	(NA)	430	5,104	
144	Mineral industry.....	20	8	400	2,078	350	790	1,751	4,464	1,843	5,968	339	332	2,717	
	Included in manufactures.....	4	...	250	2213	250	99	213	2,176	1191	2,367	(NA)	298	2,387	
	Sand and gravel.....	106	5	671	3,140	549	1,110	2,484	8,678	13,119	210,912	(NA)	(NA)	(NA)	
14	Mineral industry.....	88	4	589	2,770	467	946	2,114	6,112	2,903	8,130	885	732	5,761	
	Included in manufactures.....	18	1	282	2,370	282	164	370	2,566	1216	2,782	(NA)	(NA)	(NA)	
	Rhode Island.....	22	4	212	897	174	322	704	1,863	1767	22,382	3248	(NA)	(NA)	
14	Mineral industries.....	18	3	147	583	117	218	452	1,377	475	1,630	222	163	1,109	
	Included in manufactures.....	4	1	265	2314	257	104	252	486	1292	2752	326	(NA)	(NA)	
	Sand and gravel (mineral industry only).....	13	2	105	441	88	168	356	1,116	400	1,322	194	87	795	
142	Connecticut:														
	Crushed and broken stone (mineral industry only).....	17	7	397	2,280	312	730	1,636	3,971	2,594	6,134	431	306	3,338	
	Sand and gravel.....	56	4	2464	22,280	2356	714	1,580	5,503	12,128	26,928	(NA)	(NA)	(NA)	
144	Mineral industry.....	51	4	423	2,170	315	665	1,470	5,073	2,047	6,417	703	340	3,810	
	Middle Atlantic.....	1,039	222	17,393	89,192	14,049	29,101	65,078	221,814	184,351	2275,101	31,064	417,934	181,298	
	Mineral industries.....	789	175	14,404	76,524	11,142	23,354	52,871	175,954	75,970	221,145	30,779	14,408	148,734	
14	Included in manufactures.....	250	47	2,989	12,668	2,907	5,747	12,207	45,860	18,381	253,956	285	43,526	432,564	
	Dimension stone.....	108	16	1,091	3,802	987	1,874	3,246	6,002	2,001	7,614	389	1,248	5,827	
	Crushed and broken stone.....	300	131	8,793	44,526	7,262	15,205	34,201	115,940	150,771	2153,717	(NA)	9,283	192,719	
141	Mineral industry.....	253	108	7,561	38,904	6,030	12,741	28,579	89,266	46,505	122,777	12,994	7,663	192,719	
	Included in manufactures.....	47	23	21,232	25,622	21,232	2,464	5,622	26,674	14,266	230,940	(NA)	21,620	192,719	
	Sand and gravel.....	426	50	4,541	23,245	3,665	7,613	17,307	56,811	121,726	273,639	(NA)	(NA)	(NA)	
144	Mineral industry.....	381	47	4,257	22,157	3,381	7,045	16,219	50,046	21,070	66,218	4,898	4,389	53,224	
	Included in manufactures.....	45	3	2284	21,088	2284	568	1,088	6,765	1656	27,421	(NA)	(NA)	(NA)	
	Miscellaneous minerals, nec.....	30	8	2808	24,317	2704	1,421	3,559	9,525	13,025	211,820	3730	(NA)	(NA)	
14	New York.....	375	66	5,989	35,139	4,740	10,309	25,321	89,509	127,449	2108,333	28,625	45,739	467,677	
	Mineral industries.....	296	53	5,186	31,633	3,968	8,793	21,923	75,878	24,872	92,278	8,472	4,892	59,796	
	Included in manufactures.....	79	13	2803	23,506	2772	1,516	3,398	13,631	12,577	216,055	3153	4847	47,881	
141	Dimension stone (mineral industry only).....	14	...	69	228	65	133	216	473	58	515	16	55	380	
	Crushed and broken stone.....	76	36	2,311	12,944	1,912	4,256	10,506	35,918	113,576	244,614	(NA)	2,177	23,316	
	Mineral industry.....	63	30	2,068	11,812	1,669	3,770	9,374	30,195	12,616	37,931	4,880	1,914	23,316	
142	Included in manufactures.....	13	6	2243	21,132	2243	486	1,132	5,723	1960	26,683	(NA)	2263	23,316	
	Sand and gravel (mineral industry only).....	203	15	1,753	10,234	1,308	2,783	7,237	25,375	7,325	30,494	2,206	1,777	23,542	
	Clay and related minerals.....	24	2	2136	2711	2128	267	635	1,765	1391	22,125	(NA)	2129	1,184	
14	New Jersey.....	145	39	2,830	14,849	2,085	4,475	9,758	31,996	112,842	241,873	(NA)	42,479	429,543	
	Mineral industries.....	130	37	2,719	14,379	1,974	4,254	9,288	28,971	12,557	38,563	2,965	2,415	29,195	
	Included in manufactures.....	15	2	2111	2470	2111	221	470	3,025	1285	23,310	(NA)	464	348	
142	Crushed and broken stone.....	25	15	1,138	6,554	811	1,802	4,237	14,747	5,712	19,506	953	1,164	16,917	
	Sand and gravel (mineral industry only).....	89	18	1,174	5,627	1,000	2,123	4,445	12,889	6,006	17,289	1,606	1,009	10,829	
	Clay and related minerals.....	23	4	2409	22,240	2175	364	726	1,692	1936	22,256	3372	2237	1,435	
14	Pennsylvania.....	519	117	8,574	39,204	7,224	14,317	29,999	90,297	144,060	2124,895	29,462	49,716	485,078	
	Mineral industries.....	363	85	6,499	30,512	5,200	10,307	21,660	61,105	38,541	90,304	9,342	7,101	59,743	
	Included in manufactures.....	156	32	2,075	28,692	2,024	4,010	8,339	29,192	15,519	234,591	120	42,615	425,335	
141	Dimension stone.....	77	13	821	2,983	752	1,430	2,547	4,237	1,154	5,183	208	958	4,187	
	Mineral industry.....	46	2	196	636	178	318	553	1,088	291	1,291	88	203	909	
	Included in manufactures.....	31	11	625	2,347	574	1,112	1,994	3,149	863	3,892	120	755	3,278	
142	Crushed and broken stone.....	199	80	5,344	25,028	4,539	9,147	19,458	63,275	131,483	287,597	(NA)	5,942	152,486	
	Mineral industry.....	165	63	4,355	20,538	3,550	7,169	14,968	44,324	28,177	65,340	7,161	4,585	34,449	
	Included in manufactures.....	34	17	2989	24,490	2989	1,978	4,490	18,951	13,306	22,257	(NA)	21,357	118,037	
144	Sand and gravel.....	108	16	1,480	6,814	1,223	2,438	5,055	13,590	18,148	220,652	(NA)	(NA)	(NA)	
	Mineral industry.....	89	14	1,330	6,296	1,073	2,139	4,537	11,782	7,739	18,435	1,086	1,603	18,853	
	Included in manufactures.....	19	2	2150	2518	2150	299	518	1,808	1409	22,217	(NA)	(NA)	(NA)	
145	Clay and related minerals.....	118	7	663	2,853	625	1,142	2,651	8,409	12,918	210,407	(NA)	1,173	9,287	
	Mineral industries.....	46	5	352	1,516	314	521	1,314	3,125	1,977	4,182	920	670	5,267	
	Included in manufactures.....	72	2	2311	21,337	2311	621	1,337	5,284	1941	26,225	(NA)	2503	4,020	

See footnotes at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 2A.—General Statistics for Nonmetallic Minerals Mining Operations for Industry Groups, by Divisions, States, Alaska, and Hawaii: 1958 and 1954—Continued

(For explanation of column captions see Introduction)

Indl. code	Industry group, division, and State	1958										1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Pay-roll	Number	Man-hours	Wages						
					(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	DIVISION AND STATE—Continued													
14	East North Central.....	2,045	313	27,320	133,763	22,685	46,872	102,686	316,966	<sup>1</sup> 123,018	<sup>2</sup> 406,475	<sup>3</sup> 33,509	<sup>4</sup> 25,321	<sup>5</sup> 247,719
	Mineral industries.....	1,696	260	23,085	115,121	18,648	39,173	85,271	259,012	110,696	336,821	32,887	20,481	207,313
	Included in manufactures.....	349	53	<sup>2</sup> 4,235	<sup>2</sup> 18,642	<sup>2</sup> 4,037	<sup>2</sup> 7,699	<sup>2</sup> 17,415	<sup>2</sup> 77,954	<sup>2</sup> 12,322	<sup>2</sup> 69,654	<sup>3</sup> 3,622	<sup>4</sup> 4,840	<sup>5</sup> 240,400
	Dimension stone.....	96	25	2,573	10,446	2,309	4,146	8,751	15,947	4,753	19,707	993	4,208	18,551
	Crushed and broken stone.....	508	137	10,994	55,075	9,336	19,817	43,529	134,929	<sup>1</sup> 56,512	<sup>2</sup> 176,319	(NA)	12,816	<sup>5</sup> 110,452
142	Mineral industry.....	472	119	10,066	50,539	8,408	17,961	38,993	114,249	52,335	151,462	15,122	<sup>2</sup> 12,816	<sup>5</sup> 110,452
	Included in manufactures.....	36	18	<sup>2</sup> 928	<sup>2</sup> 4,536	<sup>2</sup> 928	1,856	4,536	20,680	<sup>2</sup> 4,177	<sup>2</sup> 24,857	(NA)	(NA)	(NA)
144	Sand and gravel.....	1,116	116	10,042	48,445	8,292	17,404	38,034	127,460	<sup>1</sup> 47,102	<sup>2</sup> 160,105	(NA)	(NA)	(NA)
	Mineral industry.....	1,043	112	9,700	46,998	7,950	16,719	36,587	116,602	46,396	148,541	14,457	8,245	83,604
	Included in manufactures.....	73	4	<sup>2</sup> 342	<sup>2</sup> 1,447	<sup>2</sup> 342	685	1,447	10,858	<sup>1</sup> 706	<sup>2</sup> 11,564	(NA)	(NA)	(NA)
145	Clay and related minerals.....	251	19	1,320	6,102	1,233	2,509	5,582	15,618	<sup>1</sup> 6,516	<sup>2</sup> 20,918	(NA)	(NA)	(NA)
	Mineral industries.....	53	10	512	2,422	425	894	1,902	5,712	3,537	8,017	1,232	(NA)	(NA)
	Included in manufactures.....	198	9	<sup>2</sup> 808	<sup>2</sup> 3,680	<sup>2</sup> 808	1,615	3,680	9,906	<sup>2</sup> 9,979	<sup>2</sup> 12,901	(NA)	(NA)	(NA)
148	Nonmetallic minerals services....	11	...	71	323	65	144	267	632	486	1,016	102	73	554
	Ohio:													
	Dimension stone.....	14	2	331	1,112	304	558	995	1,726	510	2,202	34	802	4,166
	Crushed and broken stone.....	131	50	4,022	19,705	3,344	7,126	15,238	43,126	<sup>1</sup> 17,848	<sup>2</sup> 57,221	(NA)	3,637	<sup>5</sup> 137,026
142	Mineral industry.....	110	38	3,485	16,972	2,807	5,997	12,505	30,323	15,272	41,842	3,753	3,042	<sup>5</sup> 137,026
	Included in manufactures.....	21	12	<sup>2</sup> 537	<sup>2</sup> 2,733	<sup>2</sup> 537	1,129	2,733	12,803	<sup>2</sup> 5,576	<sup>2</sup> 15,379	(NA)	<sup>2</sup> 595	(NA)
144	Sand and gravel.....	305	28	2,674	12,715	2,168	4,600	9,817	33,504	<sup>1</sup> 10,310	<sup>2</sup> 40,009	(NA)	(NA)	(NA)
	Mineral industry.....	289	28	2,604	12,403	2,098	4,460	9,505	31,576	10,206	37,977	3,805	2,267	23,844
	Included in manufactures.....	16	...	<sup>2</sup> 70	<sup>2</sup> 312	<sup>2</sup> 70	140	312	1,928	<sup>1</sup> 104	<sup>2</sup> 2,032	(NA)	(NA)	(NA)
145	Clay and related minerals.....	151	13	791	3,762	736	1,442	3,357	9,515	<sup>1</sup> 3,141	<sup>2</sup> 12,302	(NA)	1,088	10,640
	Mineral industries.....	30	6	289	1,424	234	438	1,019	4,020	1,500	5,166	354	449	6,306
	Included in manufactures.....	121	7	<sup>2</sup> 502	<sup>2</sup> 2,338	<sup>2</sup> 502	1,004	2,338	5,495	<sup>1</sup> 1,641	<sup>2</sup> 7,136	(NA)	<sup>2</sup> 639	4,334
	Miscellaneous minerals, nec..	12	2	<sup>2</sup> 109	<sup>2</sup> 417	<sup>2</sup> 106	191	408	788	<sup>1</sup> 332	<sup>2</sup> 1,106	<sup>3</sup> 14	<sup>2</sup> 153	842
14	Indiana.....	338	61	4,664	20,761	3,969	8,053	16,260	44,845	<sup>1</sup> 17,979	<sup>2</sup> 56,883	<sup>3</sup> 5,941	<sup>4</sup> 4,568	<sup>5</sup> 435,418
	Mineral industries.....	277	47	3,014	13,731	2,454	5,339	10,145	29,906	14,849	39,276	5,479	2,713	22,288
	Included in manufactures.....	61	14	<sup>2</sup> 1,650	<sup>2</sup> 7,030	<sup>2</sup> 1,515	2,714	6,115	14,939	<sup>2</sup> 3,130	<sup>2</sup> 17,607	<sup>3</sup> 462	<sup>4</sup> 1,855	<sup>5</sup> 413,130
141	Dimension stone.....	29	16	1,767	7,494	1,580	2,811	6,157	11,399	2,824	13,487	736	1,912	11,748
	Mineral industry.....	17	7	398	1,705	346	657	1,283	2,951	658	3,335	274	272	1,866
	Included in manufactures.....	12	9	1,369	5,789	1,234	2,154	4,874	8,448	2,166	10,152	462	1,640	9,882
142	Crushed and broken stone (mineral industry only).....	67	26	1,169	5,196	988	2,132	4,021	12,989	7,519	17,176	3,332	<sup>9</sup> 1,189	<sup>9</sup> 10,662
144	Sand and gravel.....	195	14	1,407	6,652	1,112	2,510	4,759	14,130	<sup>1</sup> 6,030	<sup>2</sup> 18,514	(NA)	(NA)	(NA)
	Mineral industry.....	178	13	1,335	6,377	1,040	2,367	4,484	12,917	5,937	17,208	1,646	1,265	10,952
	Included in manufactures.....	17	1	<sup>2</sup> 72	<sup>2</sup> 275	<sup>2</sup> 72	143	275	1,213	<sup>1</sup> 93	<sup>2</sup> 1,306	(NA)	(NA)	(NA)
145	Clay and related minerals.....	34	1	142	603	121	282	566	1,572	<sup>1</sup> 825	<sup>2</sup> 2,260	(NA)	188	1,985
	Mineral industries.....	7	1	66	289	45	130	252	659	518	1,040	137	<sup>2</sup> 188	1,985
	Included in manufactures.....	27	...	<sup>2</sup> 76	<sup>2</sup> 314	<sup>2</sup> 76	152	314	913	<sup>1</sup> 307	<sup>2</sup> 1,220	(NA)	(NA)	(NA)
	Illinois:													
142	Crushed and broken stone.....	158	32	2,796	14,563	2,466	5,493	12,070	45,358	<sup>1</sup> 16,473	<sup>2</sup> 56,329	(NA)	<sup>2</sup> 588	29,428
	Mineral industry.....	153	30	2,669	13,881	2,339	5,239	11,388	41,725	15,990	52,213	5,502	<sup>2</sup> 588	29,428
	Included in manufactures.....	5	2	<sup>2</sup> 127	<sup>2</sup> 682	<sup>2</sup> 127	254	682	3,633	<sup>2</sup> 483	<sup>2</sup> 4,116	(NA)	(NA)	(NA)
144	Sand and gravel.....	179	37	2,439	12,583	2,046	4,215	9,941	36,769	<sup>1</sup> 13,842	<sup>2</sup> 46,719	(NA)	(NA)	(NA)
	Mineral industry.....	171	35	2,370	12,306	1,977	4,076	9,664	32,745	13,712	42,565	3,892	1,907	20,412
	Included in manufactures.....	8	2	<sup>2</sup> 69	<sup>2</sup> 277	<sup>2</sup> 69	139	277	4,024	<sup>1</sup> 130	<sup>2</sup> 4,154	(NA)	(NA)	(NA)
145	Clay and related minerals.....	51	4	<sup>8</sup> 306	<sup>8</sup> 1,328	298	628	1,272	3,046	<sup>1</sup> 1,730	<sup>2</sup> 4,060	(NA)	187	1,787
	Mineral industries.....	13	3	<sup>8</sup> 137	<sup>8</sup> 594	129	291	538	850	<sup>1</sup> 1,155	<sup>2</sup> 1,289	716	<sup>2</sup> 187	1,787
	Included in manufactures.....	38	1	<sup>2</sup> 169	<sup>2</sup> 734	<sup>2</sup> 169	337	734	2,196	<sup>1</sup> 575	<sup>2</sup> 2,771	(NA)	(NA)	(NA)
147	Chemical and fertilizer minerals (fluorspar).....	25	6	(D)	(D)	691	1,344	2,772	6,590	4,012	9,627	975	682	5,426
14	Michigan.....	340	37	4,653	23,903	3,934	7,803	19,079	62,703	<sup>1</sup> 20,850	<sup>2</sup> 78,861	(NA)	<sup>4</sup> 3,971	<sup>5</sup> 448,105
	Mineral industries.....	305	33	4,307	22,409	3,589	7,169	17,589	55,240	19,335	69,883	4,692	3,709	44,143
	Included in manufactures.....	35	4	<sup>2</sup> 346	<sup>2</sup> 1,494	<sup>2</sup> 345	634	1,490	7,463	<sup>1</sup> 1,515	<sup>2</sup> 28,978	(NA)	<sup>4</sup> 262	<sup>5</sup> 43,962
142	Crushed and broken stone (mineral industry only).....	43	8	1,615	9,153	1,293	2,471	6,552	18,444	6,530	23,829	1,145	<sup>9</sup> 1,546	<sup>9</sup> 17,072
144	Sand and gravel.....	261	21	2,168	10,365	1,819	3,731	8,489	28,431	<sup>1</sup> 9,974	<sup>2</sup> 35,409	(NA)	(NA)	(NA)
	Mineral industry.....	243	21	2,102	10,050	1,753	3,599	8,174	26,024	9,779	32,807	2,996	1,735	19,260
	Included in manufactures.....	18	...	<sup>2</sup> 66	<sup>2</sup> 315	<sup>2</sup> 66	132	315	2,407	<sup>2</sup> 195	<sup>2</sup> 2,602	(NA)	(NA)	(NA)
	Miscellaneous minerals, nec....	11	4	<sup>2</sup> 315	<sup>2</sup> 1,342	<sup>2</sup> 280	631	1,107	5,752	<sup>1</sup> 1,565	<sup>2</sup> 7,014	<sup>3</sup> 303	(NA)	(NA)

See footnotes at end of table.



## NONMETALLIC MINERALS (EXCEPT FUELS) MINING

14A-9

Table 2A.—General Statistics for Nonmetallic Minerals Mining Operations for Industry Groups, by Divisions, States, Alaska, and Hawaii: 1958 and 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	1958										1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Pay-roll	Number	Man-hours	Wages						
					(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	DIVISION AND STATE—Continued													
	East North Central—Continued													
14	Wisconsin.....	321	40	2,908	13,237	2,509	5,189	11,093	28,114	15,458	239,828	33,744	42,865	427,973
	Mineral industries.....	283	33	2,517	11,510	2,154	4,500	9,559	24,749	14,019	35,159	3,609	2,567	26,435
	Included in manufactures.....	38	7	2391	21,727	2355	689	1,534	3,365	1,439	24,669	3135	4298	41,538
141	Dimension stone.....	38	7	399	1,653	355	664	1,426	2,419	1,306	3,518	207	461	2,435
	Mineral industry.....	20	1	93	269	85	147	235	524	202	654	72	199	1,101
	Included in manufactures.....	18	6	306	1,384	270	517	1,191	1,895	1,104	2,864	135	262	1,334
142	Crushed and broken stone (mineral industry only).....	99	17	1,128	5,337	981	2,122	4,527	10,768	7,024	16,402	1,390	1,295	16,189
144	Sand and gravel.....	176	16	1,354	6,130	1,147	2,348	5,031	14,626	16,946	219,454	(NA)	(NA)	(NA)
	Mineral industry.....	162	15	1,289	5,862	1,082	2,217	4,763	13,340	6,762	17,984	2,118	1,071	9,136
	Included in manufactures.....	14	1	265	2268	265	131	268	1,286	184	21,470	(NA)	(NA)	(NA)
14	West North Central.....	1,338	197	13,972	60,943	11,919	25,424	48,709	155,938	171,169	2207,165	319,942	413,361	4113,788
	Mineral industries.....	1,175	165	11,300	49,381	9,429	20,281	38,593	118,115	60,744	159,113	19,746	10,772	86,304
	Included in manufactures.....	163	32	22,672	211,562	22,490	5,143	10,116	37,823	10,425	248,052	3196	42,589	427,484
142	Dimension stone.....	54	13	1,692	6,988	1,479	3,122	5,446	10,850	5,633	16,239	244	1,487	7,480
	Crushed and broken stone.....	398	111	6,085	27,270	5,208	11,318	22,067	72,894	137,396	299,044	(NA)	(NA)	(NA)
	Mineral industry.....	374	97	5,462	24,315	4,585	10,071	19,112	57,426	34,184	80,364	11,246	(NA)	(NA)
144	Included in manufactures.....	24	14	2623	22,955	2623	1,247	2,955	15,468	13,212	218,680	(NA)	(NA)	(NA)
	Sand and gravel.....	686	56	4,666	20,516	3,886	8,351	16,108	48,484	121,210	262,655	(NA)	(NA)	(NA)
	Mineral industry.....	636	53	4,456	19,757	3,676	7,931	15,349	44,747	20,699	58,407	7,039	4,487	37,372
145	Included in manufactures.....	50	3	2210	2759	2210	420	759	3,737	511	24,248	(NA)	(NA)	(NA)
	Clay and related minerals.....	139	7	759	3,016	693	1,362	2,712	10,042	14,667	213,893	(NA)	(NA)	(NA)
	Mineral industries.....	78	7	567	2,206	501	979	1,902	6,758	3,695	9,637	816	(NA)	(NA)
145	Included in manufactures.....	61	...	2192	2810	2192	383	810	3,284	1972	24,256	(NA)	(NA)	(NA)
	Miscellaneous minerals, nec.....	28	5	2234	2874	2225	407	819	6,895	1744	27,568	371	105,567	1044,957
	Minnesota.....	228	33	2,960	13,896	2,454	5,485	10,382	27,446	113,125	238,056	32,515	42,260	415,372
14	Mineral industries.....	200	26	1,974	9,424	1,580	3,573	6,886	19,514	10,084	27,119	2,479	1,506	11,587
	Included in manufactures.....	28	7	2986	24,472	2874	1,912	3,496	7,932	13,041	210,937	336	4754	43,785
	Dimension stone.....	22	6	972	4,332	844	1,841	3,335	6,708	3,034	9,689	53	804	3,997
141	Mineral industry.....	15	...	88	191	72	130	170	402	238	623	17	50	212
	Included in manufactures.....	7	6	884	4,141	772	1,711	3,165	6,306	2,796	9,066	36	754	3,785
	Crushed and broken stone.....	29	10	542	2,529	470	1,029	2,058	4,354	3,081	6,899	536	377	2,430
144	Sand and gravel.....	167	16	1,358	6,659	1,060	2,457	4,697	15,784	16,663	220,582	(NA)	(NA)	(NA)
	Mineral industry.....	151	15	1,282	6,397	984	2,305	4,435	14,256	6,467	18,858	1,865	1,044	8,784
	Included in manufactures.....	16	1	276	2262	276	152	262	1,528	196	21,724	(NA)	(NA)	(NA)
14	Iowa.....	273	42	2,721	12,167	2,290	5,113	9,525	37,510	18,044	249,766	35,788	(NA)	(NA)
	Mineral industries.....	231	38	2,489	11,067	2,058	4,660	8,425	29,128	16,858	40,199	5,787	(NA)	(NA)
	Included in manufactures.....	42	4	2232	21,100	2232	453	1,100	8,382	11,186	29,567	31	4330	45,803
142	Crushed and broken stone (mineral industry only).....	112	31	1,731	7,807	1,421	3,300	5,725	20,383	13,535	29,461	4,457	91,399	913,176
144	Sand and gravel.....	123	7	2743	23,224	2627	1,336	2,676	8,979	13,321	210,991	(NA)	(NA)	(NA)
	Mineral industry.....	111	7	727	3,170	611	1,309	2,622	8,546	3,237	10,474	1,309	674	6,539
	Missouri:													
141	Dimension stone.....	13	2	464	1,726	401	852	1,324	2,457	1,714	4,067	104	416	1,918
	Mineral industry.....	9	...	54	175	42	79	113	176	50	219	7	416	1,918
	Included in manufactures.....	4	2	410	1,551	359	773	1,211	2,281	1,664	3,848	97		
142	Crushed and broken stone.....	156	40	2,350	10,068	2,036	4,129	8,352	26,963	12,678	235,953	(NA)	2,281	21,156
	Mineral industry.....	146	31	1,966	8,299	1,652	3,361	6,583	18,725	10,469	25,506	3,688	1,790	12,710
	Included in manufactures.....	10	9	2384	21,769	2384	768	1,769	8,238	12,209	210,447	(NA)	2491	8,446
144	Sand and gravel (mineral industry only).....	84	13	788	3,085	675	1,332	2,468	6,307	3,162	8,573	896	778	6,629
145	Clay and related minerals (mineral industries only).....	50	4	361	1,375	323	604	1,220	4,161	2,127	5,920	368	(NA)	(NA)
14	South Dakota.....	89	13	756	3,244	671	1,402	2,646	8,219	13,630	210,360	31,489	41,095	48,915
	Mineral industries.....	80	10	583	2,552	508	1,066	2,055	7,108	3,041	8,714	1,435	964	8,001
	Included in manufactures.....	9	3	2173	2692	2163	336	591	1,111	1589	21,646	354	4131	4914
142	Dimension stone.....	6	3	152	624	141	293	521	1,235	618	1,798	55	194	1,192
	Included in manufactures.....	3	2	123	537	113	238	436	816	550	1,312	54	63	286
	Crushed and broken stone (mineral industry only).....	9	3	147	650	116	243	516	2,075	591	2,416	250	203	1,491

See footnotes at end of table.

Table 2A.—General Statistics for Nonmetallic Minerals Mining Operations for Industry Groups, by Divisions, States, Alaska, and Hawaii: 1954 and 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	1958										1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Pay-roll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	DIVISION AND STATE—Continued													
	West North Central— Continued													
142	Nebraska:													
	Crushed and broken stone (mineral industry only).....	20	5	280	1,333	243	611	1,170	3,327	1,774	4,088	1,013	9383	92,820
144	Sand and gravel (mineral industry only).....	122	7	705	2,754	601	1,202	2,284	5,945	3,155	8,278	822	682	4,803
14	Kansas.....	200	31	1,824	8,284	1,529	3,288	6,681	22,554	18,581	28,889	3,246	4,2154	419,269
	Mineral industries.....	167	26	1,531	7,151	1,245	2,765	5,577	16,019	7,663	21,444	2,238	1,767	15,164
	Included in manufactures....	33	5	293	1,133	284	523	1,104	6,535	1,918	27,445	38	2387	4,105
142	Crushed and broken stone.....	66	19	901	4,170	788	1,738	3,533	11,656	15,104	215,458	(NA)	1,015	8,743
	Mineral industry.....	58	17	796	3,697	683	1,527	3,060	8,562	4,734	11,994	1,302	797	6,518
	Included in manufactures....	8	2	2105	2,473	2105	211	473	3,094	2,370	3,464	(NA)	2218	2,225
144	Sand and gravel.....	111	7	2559	2,494	2,459	1,018	2,069	6,321	12,414	37,889	(NA)	(NA)	(NA)
	Mineral industry.....	96	6	512	2,299	412	924	1,874	5,306	2,314	6,774	846	668	5,529
145	Clay and related minerals.....	17	1	275	2339	266	143	295	1,495	1397	21,849	343	(NA)	(NA)
14	South Atlantic.....	1,074	328	25,139	95,786	21,805	45,305	76,753	259,187	167,215	239,621	31,781	424,283	416,203,196
	Mineral industries.....	900	297	22,389	86,133	19,220	40,341	67,926	229,402	160,581	358,601	31,382	21,434	161,796
	Included in manufactures....	174	31	2,750	29,653	3,258	4,964	8,827	29,785	16,634	26,020	3399	2,849	421,400
	Dimension stone.....	68	23	1,978	5,656	1,763	3,200	4,705	8,302	3,315	11,114	503	1,877	7,493
141	Mineral industry.....	41	6	429	1,059	379	638	934	1,809	753	2,458	104	1,877	7,493
	Included in manufactures....	27	17	1,549	4,597	1,384	2,562	3,771	6,493	2,562	8,656	399		
142	Crushed and broken stone.....	306	162	8,592	32,975	7,507	16,005	26,671	93,924	151,836	2131,865	(NA)	(NA)	(NA)
	Mineral industry.....	281	153	8,180	31,078	7,095	15,181	24,774	84,591	49,964	120,660	13,895	(NA)	(NA)
	Included in manufactures....	25	9	2412	21,897	2412	824	1,897	9,333	1,872	211,205	(NA)	(NA)	(NA)
144	Sand and gravel.....	328	62	4,422	17,519	3,835	8,110	14,177	49,395	121,008	264,652	(NA)	(NA)	(NA)
	Mineral industry.....	304	59	4,193	16,472	3,606	7,652	13,130	43,522	20,384	58,155	5,751	4,144	36,201
	Included in manufactures....	24	3	2229	21,047	2229	458	1,047	5,873	1624	26,497	(NA)	(NA)	(NA)
147	Clay and related minerals.....	183	42	24,619	217,977	23,985	8,376	14,059	44,843	123,926	263,017	35,752	(NA)	(NA)
	Chemical and fertilizer													
	minerals.....	45	25	3,753	16,717	3,114	6,546	12,959	51,916	63,905	111,077	4,744	(NA)	(NA)
148	Nonmetallic minerals services.	16	1	362	794	358	654	773	1,052	259	1,149	162	97	550
	Miscellaneous minerals, nec...	128	13	1,413	4,148	1,243	2,414	3,409	9,755	12,966	211,747	3974	(NA)	(NA)
14	Delaware, Maryland, and District of Columbia.....	119	26	1,930	8,405	1,642	3,237	6,409	23,220	113,354	233,441	3,133	41,740	418,390
	Mineral industries.....	87	25	1,728	7,467	1,443	2,846	5,485	18,314	12,447	27,631	3,130	1,600	15,759
	Included in manufactures....	32	1	202	2,938	2199	391	924	4,906	1,907	25,810	33	140	42,631
	Dimension stone.....	9	...	75	201	59	85	158	286	72	347	11	63	233
142	Crushed and broken stone.....	28	14	868	3,914	731	1,413	2,883	11,325	15,555	215,890	(NA)	595	7,630
	Mineral industry.....	23	14	815	3,652	678	1,307	2,621	9,134	5,207	13,351	990	512	5,758
	Included in manufactures....	5	...	253	2,262	253	106	262	2,191	1,348	2,539	(NA)	283	1,872
144	Sand and gravel.....	60	12	869	3,796	742	1,514	2,922	10,036	16,183	214,135	3,2084	(NA)	(NA)
	Mineral industry.....	52	11	808	3,477	681	1,391	2,608	8,208	5,951	12,075	2,084	977	9,365
	Delaware.....	10	...	60	228	51	87	175	599	171	686	84	50	566
	Maryland.....	42	11	748	3,249	630	1,304	2,428	7,609	5,780	11,389	2,000	927	8,799
	Included in manufactures....	8	1	261	2319	261	123	319	1,828	1232	2,060	(NA)	(NA)	(NA)
	Clay and related minerals.....	18	...	79	329	77	153	324	1,004	1384	21,372	316	272	1,003
	Included in manufactures....	15	...	262	2273	262	124	273	769	1306	21,075	(NA)	(NA)	(NA)
14	Virginia.....	168	71	4,106	14,246	3,662	7,625	11,830	36,825	116,768	247,940	35,653	4,060	28,998
	Mineral industries.....	135	63	3,520	12,274	3,094	6,542	9,946	29,726	15,702	39,778	5,650	3,315	22,079
	Included in manufactures....	33	8	2586	21,972	2568	1,083	1,884	7,099	1,066	28,162	33	2745	6,919
142	Crushed and broken stone.....	80	47	2,031	6,859	1,808	3,698	5,716	19,744	110,155	225,766	(NA)	1,763	13,388
	Mineral industry.....	71	42	1,839	6,048	1,616	3,313	4,905	15,526	9,485	20,878	4,133	1,479	8,907
	Included in manufactures....	9	5	2192	2811	2192	385	811	4,248	1670	24,888	(NA)	2284	4,481
144	Sand and gravel (mineral industry only).....	46	11	848	3,268	728	1,661	2,640	9,034	3,178	11,476	736	961	9,341
142	West Virginia:													
	Crushed and broken stone (mineral industry only).....	30	10	683	2,888	580	1,023	2,180	6,790	2,697	9,018	469	91,237	910,417
144	Sand and gravel (mineral industry only).....	25	8	620	2,786	490	964	2,112	8,312	2,390	10,275	427	757	7,107
	Clay and related minerals.....	7	1	292	2483	291	179	473	586	1311	2897	(NA)	(NA)	(NA)

See footnotes at end of table.



Table 2A.—General Statistics for Nonmetallic Minerals Mining Operations for Industry Groups, by Divisions, States, Alaska, and Hawaii: 1958 and 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	1958										1954			
		Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and pur- chased machin- ery in- stalled	Value of ship- ments and re- ceipts	Capit- al ex- pendi- tures	All em- ploy- ees, number	Value added in mining	
		Total	With 20 or more em- ploy- ees	Number	Pay- roll	Number	Man- hours	Wages							
					(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)	
	DIVISION AND STATE—Continued														
	South Atlantic—Continued														
	North Carolina:														
	Dimension stone.....	11	4	495	1,427	439	800	1,188	2,182	736	2,839	79	387	1,511	
	Included in manufactures.....	6	4	481	1,397	427	786	1,161	2,123	731	2,779	75	338	1,369	
142	Crushed and broken stone.....	40	23	1,120	4,043	1,003	2,243	3,396	10,394	6,765	15,855	1,304	982	9,246	
144	Sand and gravel (mineral industry only).....	44	9	486	1,555	431	909	1,301	4,324	1,583	5,367	540	480	3,606	
145	Clay and related minerals (mineral industries only)....	32	7	531	1,639	482	953	1,352	4,098	3,695	6,691	1,102	(NA)	(NA)	
148	Nonmetallic minerals services...	8	1	329	704	325	598	686	832	168	877	123	(NA)	(NA)	
	South Carolina:														
142	Crushed and broken stone (mineral industry only).....	10	9	510	1,643	466	989	1,455	4,176	3,062	6,722	516	(NA)	(NA)	
	Sand and gravel.....	35	3	2307	21,129	2270	541	952	3,343	1,824	24,328	(NA)	(NA)	(NA)	
144	Mineral industry.....	32	3	304	1,111	267	535	934	3,246	1,820	4,227	839	323	2,182	
	Georgia.....	174	70	6,074	22,434	5,300	11,249	18,015	57,188	131,674	280,902	37,960	45,110	436,458	
14	Mineral industries.....	145	58	5,093	19,272	4,407	9,540	15,333	51,162	29,593	73,103	7,652	4,178	31,856	
	Included in manufactures.....	29	12	2981	23,162	2893	1,709	2,682	6,026	12,081	27,799	3308	4932	44,602	
	Dimension stone.....	34	15	1,106	3,269	1,002	1,855	2,749	4,751	2,270	6,665	356	1,071	4,516	
141	Mineral industry.....	23	4	266	664	250	429	624	1,147	611	1,710	48	366	1,630	
	Included in manufactures.....	11	11	840	2,605	752	1,426	2,125	3,604	1,659	4,955	308	705	2,886	
142	Crushed and broken stone (mineral industry only).....	31	25	1,424	5,233	1,238	2,884	4,181	17,898	11,784	26,392	3,290	1,063	9,530	
144	Sand and gravel (mineral industry only).....	42	7	463	1,612	436	858	1,485	3,776	1,844	5,258	362	322	2,179	
	Clay and related minerals.....	42	19	2,764	11,283	2,336	4,993	8,711	27,824	14,461	28,646	(NA)	2,262	18,030	
145	Mineral industries.....	29	19	2,672	10,933	2,244	4,810	8,361	26,149	14,190	36,700	3,639	2,161	16,933	
	Included in manufactures.....	13	...	292	2350	292	183	350	1,675	1271	21,946	(NA)	2101	1,097	
	Florida:														
142	Crushed and broken stone (mineral industry only).....	76	30	1,789	7,571	1,514	3,422	6,036	20,673	10,964	28,444	3,193	91,216	911,708	
	Sand and gravel.....	68	12	802	3,248	711	1,609	2,640	9,435	13,947	212,619	(NA)	(NA)	(NA)	
144	Mineral industry.....	63	10	664	2,663	573	1,334	2,055	6,622	3,618	9,477	763	324	2,421	
	Included in manufactures.....	5	2	2138	2585	2138	275	585	2,813	1329	23,142	(NA)	(NA)	(NA)	
	Clay and related minerals.....	5	2	2189	2566	2174	324	464	1,480	1561	21,899	3142	2530	4,218	
147 and 148	Phosphate rock and Nonmetallic mineral services.....	37	20	3,278	14,717	2,714	5,675	11,465	47,936	60,912	102,432	4,416	4,027	46,474	
	East South Central.....	597	165	10,153	36,138	8,980	19,220	29,936	98,518	147,656	2133,847	312,327	410,879	482,914	
14	Mineral industry.....	501	145	8,481	30,612	7,384	16,096	24,851	77,933	43,458	109,228	12,163	9,428	70,877	
	Included in manufactures.....	96	20	21,672	25,526	21,596	3,124	5,085	20,585	14,198	224,619	3164	41,451	412,037	
	Dimension stone.....	45	13	1,277	3,622	1,178	2,192	3,125	6,076	1,985	7,657	404	1,440	5,745	
141	Mineral industry.....	33	5	304	727	281	459	671	1,306	411	1,477	240	1,440	5,745	
	Included in manufactures.....	12	8	973	2,895	897	1,733	2,454	4,770	1,574	6,180	164	1,440	5,745	
142	Crushed and broken stone.....	227	87	4,487	15,851	4,002	8,555	13,478	45,548	123,779	262,647	(NA)	(NA)	(NA)	
	Mineral industry.....	208	77	4,043	14,062	3,558	7,667	11,689	37,868	21,994	53,182	6,680	(NA)	(NA)	
	Included in manufactures.....	19	10	2444	21,789	2444	888	1,789	7,680	11,785	29,465	(NA)	(NA)	(NA)	
144	Sand and gravel.....	163	37	2,100	7,957	1,803	4,486	6,368	19,540	18,796	224,707	(NA)	(NA)	(NA)	
	Mineral industry.....	155	35	2,030	7,743	1,733	4,347	6,154	17,848	8,593	22,812	3,629	2,166	14,450	
	Included in manufactures.....	8	2	270	2214	270	139	214	1,692	1203	21,895	(NA)	(NA)	(NA)	
145	Clay and related minerals.....	113	16	1,180	4,008	1,023	1,971	3,202	16,637	14,245	220,181	(NA)	(NA)	(NA)	
	Mineral industry.....	56	16	998	3,380	841	1,606	2,574	9,400	3,609	12,308	701	(NA)	(NA)	
	Included in manufactures.....	57	...	2182	2628	2182	365	628	7,237	1636	27,873	(NA)	(NA)	(NA)	
148	Nonmetallic minerals services...	5	1	73	222	67	123	201	455	293	669	79	224	1,767	

See footnotes at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 2A.—General Statistics for Nonmetallic Minerals Mining Operations for Industry Groups, by Divisions, States, Alaska, and Hawaii: 1958 and 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	1958										1954		
		Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and pur- chased machin- ery in- stalled	Value of ship- ments and re- ceipts	Capi- tal ex- pendi- tures	All em- ploy- ees, number	Value added in mining
		Total	With 20 or more em- ploy- ees	Number	Pay- roll	Number	Man- hours	Wages						
					(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	DIVISION AND STATE—Continued													
	East South Central—Continued													
14	Kentucky.....	174	50	2,718	10,093	2,363	5,266	8,225	24,196	<sup>1</sup> 13,183	<sup>2</sup> 33,141	<sup>3</sup> 4,238	<sup>4</sup> 2,668	<sup>4</sup> 18,235
	Mineral industries <sup>1</sup> .....	162	50	2,682	9,972	2,327	5,194	8,104	23,144	<sup>1</sup> 13,120	<sup>2</sup> 32,026	<sup>3</sup> 4,238	<sup>4</sup> 2,646	<sup>4</sup> 18,135
	Included in manufactures....	12	...	<sup>2</sup> 36	<sup>2</sup> 121	<sup>2</sup> 36	72	121	1,052	<sup>2</sup> 63	<sup>2</sup> 1,115	(NA)	<sup>4</sup> 22	<sup>4</sup> 100
142	Crushed and broken stone.....	95	37	1,801	6,142	1,567	3,553	5,061	15,478	9,275	21,851	2,902	1,474	10,821
144	Sand and gravel (mineral industry only).....	32	6	362	1,809	297	773	1,338	3,713	1,502	4,254	961	412	3,312
	Clay and related minerals.....	32	6	<sup>2</sup> 385	<sup>2</sup> 1,490	<sup>2</sup> 349	653	1,271	3,648	<sup>1</sup> 1,353	<sup>2</sup> 4,813	<sup>3</sup> 188	<sup>4</sup> 413	<sup>4</sup> 2,447
14	Tennessee.....	230	70	4,495	15,999	3,979	8,568	13,109	41,185	<sup>1</sup> 23,175	<sup>2</sup> 59,629	<sup>3</sup> 4,731	<sup>4</sup> 5,097	<sup>4</sup> 40,704
	Mineral industries.....	201	58	3,547	13,060	3,082	6,842	10,472	33,743	<sup>1</sup> 21,488	<sup>2</sup> 50,638	<sup>3</sup> 4,593	<sup>4</sup> 4,492	<sup>4</sup> 36,571
	Included in manufactures....	29	12	<sup>2</sup> 948	<sup>3</sup> 2,939	<sup>2</sup> 897	1,726	2,637	7,442	<sup>1</sup> 1,687	<sup>2</sup> 8,991	<sup>3</sup> 138	<sup>4</sup> 605	<sup>4</sup> 4,133
	Dimension stone.....	36	11	997	2,668	924	1,684	2,312	4,172	1,416	5,237	351	1,024	3,851
	Crushed and broken stone.....	91	32	1,610	5,644	1,431	3,051	4,826	16,363	<sup>1</sup> 9,940	<sup>2</sup> 23,733	(NA)	<sup>1</sup> 541	<sup>1</sup> 1,282
142	Mineral industry.....	85	28	<sup>1</sup> 436	<sup>4</sup> 910	<sup>1</sup> 257	<sup>2</sup> 703	<sup>4</sup> 092	<sup>14</sup> 246	<sup>9</sup> 464	<sup>2</sup> 21,140	<sup>2</sup> 570	<sup>1</sup> 308	<sup>8</sup> 884
	Included in manufactures....	6	4	<sup>2</sup> 174	<sup>2</sup> 734	<sup>2</sup> 174	348	734	2,117	<sup>1</sup> 476	<sup>2</sup> 2,593	(NA)	<sup>2</sup> 233	<sup>2</sup> 398
	Sand and gravel.....	49	12	<sup>2</sup> 658	<sup>2</sup> 2,562	<sup>2</sup> 586	1,656	2,108	6,282	<sup>1</sup> 2,866	<sup>2</sup> 8,140	<sup>3</sup> 1,008	(NA)	(NA)
144	Mineral industry.....	45	10	611	2,408	539	1,561	1,954	5,204	2,741	6,937	1,008	762	<sup>4</sup> 731
145	Clay and realted minerals (mineral industries only)....	12	6	332	1,160	277	573	783	3,633	1,445	4,680	398	(NA)	(NA)
14	Alabama.....	122	31	2,059	7,240	1,880	3,728	6,243	23,713	<sup>1</sup> 7,142	<sup>2</sup> 28,675	<sup>3</sup> 2,180	<sup>4</sup> 2,294	<sup>4</sup> 16,650
	Mineral industries.....	81	23	<sup>1</sup> 415	<sup>4</sup> 910	<sup>1</sup> 261	<sup>2</sup> 484	<sup>4</sup> 052	<sup>12</sup> 514	<sup>4</sup> 948	<sup>15</sup> 308	<sup>2</sup> 154	<sup>1</sup> 522	<sup>9</sup> 419
	Included in manufactures....	41	8	<sup>2</sup> 644	<sup>2</sup> 2,330	<sup>2</sup> 619	<sup>1</sup> 244	<sup>2</sup> 191	<sup>11</sup> 199	<sup>1</sup> 2,194	<sup>2</sup> 13,367	<sup>3</sup> 26	<sup>4</sup> 772	<sup>4</sup> 7,231
	Dimension stone.....	6	2	276	944	251	505	805	1,867	566	2,396	37	409	1,874
144	Sand and gravel (mineral industry only).....	33	9	391	1,233	330	711	996	2,989	<sup>1</sup> 1,145	<sup>3</sup> 5,888	546	450	2,527
	Clay and related minerals.....	37	1	<sup>2</sup> 216	<sup>2</sup> 704	<sup>2</sup> 204	371	617	<sup>4</sup> 392	<sup>1</sup> 516	<sup>2</sup> 4,837	<sup>3</sup> 71	<sup>2</sup> 241	2,034
14	Mississippi.....	71	14	897	2,989	773	1,691	2,436	9,553	<sup>14</sup> 2,444	<sup>2</sup> 12,617	(NA)	<sup>4</sup> 820	<sup>4</sup> 7,325
	Mineral industries.....	57	14	853	2,853	729	1,609	2,300	8,661	<sup>3</sup> 990	<sup>11</sup> 471	<sup>1</sup> 180	768	<sup>6</sup> 752
	Included in manufactures....	14	...	<sup>2</sup> 44	<sup>2</sup> 136	<sup>2</sup> 44	82	136	892	<sup>1</sup> 254	<sup>2</sup> 1,146	(NA)	<sup>4</sup> 52	<sup>4</sup> 573
144	Sand and gravel.....	45	10	666	2,293	567	1,302	1,866	5,942	3,205	8,033	1,114	542	3,880
145	Clay and related minerals (mineral industries only)....	9	3	163	484	139	264	361	2,592	688	3,236	44	(NA)	(NA)
14	West South Central.....	723	181	14,543	64,795	12,019	26,500	48,858	214,341	<sup>1</sup> 83,979	<sup>2</sup> 269,118	<sup>3</sup> 29,202	<sup>4</sup> 14,509	<sup>4</sup> 217,557
	Mineral industries.....	569	160	13,086	59,469	10,598	23,742	43,714	186,859	<sup>78</sup> 887	<sup>236</sup> 635	<sup>29</sup> 111	<sup>12</sup> 755	<sup>200</sup> 763
	Included in manufactures....	569	21	<sup>2</sup> 1,457	<sup>2</sup> 5,326	<sup>2</sup> 1,421	<sup>2</sup> 758	<sup>5</sup> 144	<sup>27</sup> 482	<sup>15</sup> 092	<sup>2</sup> 32,483	<sup>3</sup> 91	<sup>4</sup> 1,754	<sup>4</sup> 16,794
	Dimension stone.....	42	9	518	1,536	455	745	1,293	2,678	1,690	4,276	92	472	2,072
141	Mineral industry.....	27	3	188	448	161	284	384	963	288	1,186	65	472	2,072
	Included in manufactures....	15	6	330	1,088	294	461	909	1,715	1,402	3,090	27		
142	Crushed and broken stone.....	100	47	2,762	11,209	2,437	5,805	9,632	29,529	14,285	40,967	(NA)	(NA)	(NA)
	Mineral industry.....	82	38	2,372	9,628	2,047	5,026	8,051	19,750	13,028	29,931	2,847	(NA)	(NA)
	Included in manufactures....	18	9	390	1,581	390	779	1,581	9,779	1,257	11,036	(NA)	(NA)	(NA)
144	Sand and gravel.....	372	78	4,782	18,318	4,217	9,966	15,462	48,866	21,859	64,126	(NA)	(NA)	(NA)
	Mineral industry.....	354	74	4,414	16,990	3,849	9,229	14,134	43,376	21,100	57,877	6,599	4,362	31,460
	Included in manufactures....	18	4	368	1,328	368	737	1,328	5,490	759	6,249	(NA)	(NA)	(NA)
	Clay and related minerals.....	125	12	<sup>2</sup> 809	<sup>2</sup> 2,796	<sup>2</sup> 746	1,586	2,351	6,820	<sup>14</sup> 358	<sup>2</sup> 10,473	<sup>3</sup> 705	(NA)	(NA)
147	Chemical and fertilizer minerals	41	25	4,804	27,560	3,428	6,940	17,719	114,252	37,900	133,901	18,251	(NA)	(NA)
148	Nonmetallic mineral services....	10	1	265	661	259	419	636	1,000	158	1,121	37	67	354
149	Miscellaneous minerals, nec.....	32	9	<sup>2</sup> 539	<sup>2</sup> 2,015	<sup>2</sup> 467	940	1,566	9,191	<sup>1</sup> 2,971	<sup>2</sup> 11,508	<sup>3</sup> 654	(NA)	(NA)
14	Arkansas.....	99	18	1,680	5,964	1,461	2,994	4,949	15,428	<sup>1</sup> 6,172	<sup>2</sup> 20,418	<sup>3</sup> 1,182	<sup>4</sup> 1,843	<sup>4</sup> 22,591
	Mineral industries.....	79	13	<sup>1</sup> 347	<sup>4</sup> 802	<sup>1</sup> 136	<sup>2</sup> 393	<sup>3</sup> 808	<sup>11</sup> 499	<sup>5</sup> 488	<sup>15</sup> 807	<sup>1</sup> 180	<sup>1</sup> 622	<sup>20</sup> 388
	Included in manufactures....	20	5	<sup>2</sup> 333	<sup>2</sup> 1,162	<sup>2</sup> 325	601	1,141	3,929	<sup>1</sup> 684	<sup>2</sup> 4,611	<sup>3</sup> 2	<sup>4</sup> 221	<sup>4</sup> 2,203
	Dimension stone.....	20	2	142	268	121	168	225	465	182	605	42	92	303
141	Mineral industry.....	15	...	71	132	58	90	110	296	106	362	40	92	303
	Included in manufactures....	5	2	71	136	63	78	115	169	76	243	2		
144	Sand and gravel (mineral industry only).....	34	6	389	1,347	329	655	1,016	2,845	1,578	4,013	410	427	3,139
147	Chemical and fertilizer minerals.....	4	2	366	1,485	272	513	1,040	4,629	1,272	5,731	170	(NA)	(NA)

See footnotes at end of table.



Table 2A.—General Statistics for Nonmetallic Minerals Mining Operations for Industry Groups, by Divisions, States, Alaska, and Hawaii: 1958 and 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	1958*										1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Pay-roll	Number	Man-hours	Wages						
					(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	DIVISION AND STATE—Continued													
	West South Central—Continued													
14	Louisiana.....	106	38	3,763	18,535	2,753	6,154	12,032	69,926	<sup>1</sup> 31,661	<sup>2</sup> 82,754	(NA)	<sup>4</sup> 3,797	<sup>6</sup> 62,199
	Mineral industries <sup>12</sup> .....	95	38	3,738	18,437	2,728	6,106	11,934	69,570	<sup>1</sup> 31,467	<sup>2</sup> 82,204	18,833	<sup>3</sup> 6,966	<sup>6</sup> 61,696
	Included in manufactures....	11	...	<sup>2</sup> 25	<sup>2</sup> 98	<sup>3</sup> 25	48	98	356	<sup>1</sup> 194	<sup>2</sup> 550	(NA)	<sup>4</sup> 101	<sup>6</sup> 503
144	Sand and gravel (mineral industry only).....	77	24	1,223	4,648	1,043	2,592	3,824	11,684	6,984	16,891	1,777	1,119	7,363
145	Clay and related minerals (mineral industries only)....	4	2	81	408	69	166	283	707	501	1,159	49	(NA)	(NA)
14	Oklahoma.....	121	22	1,449	5,704	1,251	2,728	4,841	12,646	<sup>1</sup> 6,951	<sup>2</sup> 18,227	<sup>3</sup> 1,370	<sup>4</sup> 1,386	<sup>6</sup> 11,700
	Mineral industries.....	96	17	1,228	4,961	1,034	2,319	4,106	9,717	<sup>1</sup> 6,383	<sup>2</sup> 14,751	1,349	1,145	<sup>9</sup> 4,311
	Included in manufactures....	25	5	<sup>2</sup> 221	<sup>2</sup> 743	<sup>2</sup> 217	409	735	2,929	<sup>1</sup> 568	<sup>2</sup> 3,476	<sup>3</sup> 21	<sup>4</sup> 241	<sup>6</sup> 2,269
	Dimension stone.....	9	2	97	264	92	157	256	447	207	633	21	69	295
	Included in manufactures....	5	2	80	221	76	133	213	336	173	488	21	(NA)	(NA)
142	Crushed and broken stone (mineral industry only).....	29	12	780	3,330	659	1,511	2,721	5,362	4,372	8,818	916	<sup>9</sup> 687	<sup>9</sup> 5,897
144	Sand and gravel (mineral industry only).....	52	4	333	1,234	280	591	1,041	3,278	1,444	4,437	285	363	2,956
149	Miscellaneous minerals, nec, (mineral industries only)....	7	1	58	189	44	105	153	636	279	864	51	(NA)	(NA)
14	Texas.....	395	104	7,795	34,391	6,558	14,594	26,990	114,380	<sup>1</sup> 38,590	<sup>2</sup> 145,225	<sup>3</sup> 7,745	<sup>4</sup> 7,483	<sup>6</sup> 121,067
	Mineral industries.....	297	92	6,893	31,093	5,680	12,897	23,842	96,437	<sup>1</sup> 35,047	<sup>2</sup> 123,762	<sup>3</sup> 7,722	<sup>4</sup> 6,292	<sup>6</sup> 109,257
	Included in manufactures....	98	12	<sup>2</sup> 902	<sup>2</sup> 3,298	<sup>2</sup> 878	1,697	3,148	17,943	<sup>1</sup> 3,543	<sup>2</sup> 21,463	<sup>3</sup> 23	<sup>4</sup> 1,191	<sup>6</sup> 11,810
	Dimension stone.....	13	5	279	1,004	242	420	812	1,785	1,301	3,038	48	311	1,474
141	Mineral industry.....	8	3	100	273	87	170	231	556	148	679	25	26	76
	Included in manufactures....	5	2	179	731	155	250	581	1,229	1,153	2,359	23	285	1,398
	Crushed and broken stone.....	50	27	1,466	5,908	1,309	3,148	5,081	(D)	7,609	(D)	(NA)	1,132	<sup>12</sup> 7,761
142	Mineral industry.....	37	22	1,191	4,781	1,034	2,597	3,954	11,122	6,657	16,071	1,708	773	6,062
	Included in manufactures....	13	5	<sup>2</sup> 275	<sup>2</sup> 1,127	<sup>2</sup> 275	551	1,127	(D)	<sup>1</sup> 952	(D)	(NA)	<sup>2</sup> 359	<sup>16</sup> 6,699
	Sand and gravel.....	202	43	2,653	10,320	2,381	5,758	8,812	28,123	<sup>1</sup> 11,522	<sup>2</sup> 35,518	(NA)	(NA)	(NA)
144	Mineral industry.....	191	40	2,469	9,761	2,197	5,391	8,253	25,569	<sup>1</sup> 11,094	<sup>2</sup> 32,536	4,127	2,453	18,002
	Included in manufactures....	11	3	<sup>2</sup> 184	<sup>2</sup> 559	<sup>2</sup> 184	367	559	2,554	<sup>1</sup> 428	<sup>2</sup> 2,982	(NA)	(NA)	(NA)
145	Clay and related minerals (mineral industries only)....	18	8	309	1,072	266	576	814	2,530	2,087	4,331	286	182	2,029
147	Chemical and fertilizer minerals.....	24	12	2,010	12,437	1,603	3,226	9,046	52,925	12,929	64,741	1,113	2,533	80,733
149	Miscellaneous minerals, nec, (mineral industries only)....	11	5	291	1,148	237	453	764	2,738	1,830	4,068	500	(NA)	(NA)
14	Mountain.....	701	76	10,755	56,851	8,822	17,503	43,868	176,738	62,474	<sup>2</sup> 220,919	<sup>3</sup> 18,293	<sup>4</sup> 9,481	(NA)
	Mineral industries.....	588	68	9,907	52,985	7,979	15,844	40,017	152,194	59,007	<sup>2</sup> 192,930	18,271	<sup>9</sup> 9,077	(NA)
	Included in manufactures....	113	8	<sup>2</sup> 848	<sup>2</sup> 3,866	<sup>2</sup> 843	1,659	3,851	24,544	<sup>1</sup> 3,467	<sup>2</sup> 27,989	<sup>3</sup> 22	<sup>4</sup> 404	<sup>4</sup> 8,387
	Dimension stone.....	47	...	116	340	104	195	297	694	342	869	167	194	968
	Crushed and broken stone.....	90	11	1,062	5,705	927	1,839	4,707	17,318	<sup>1</sup> 7,048	<sup>2</sup> 21,646	(NA)	(NA)	(NA)
	Mineral industry.....	69	8	874	4,798	739	1,463	3,800	10,371	6,162	13,813	2,720	(NA)	(NA)
	Included in manufactures....	21	3	<sup>2</sup> 188	<sup>2</sup> 907	<sup>2</sup> 188	376	907	6,947	<sup>1</sup> 886	<sup>2</sup> 7,833	(NA)	(NA)	(NA)
	Sand and gravel.....	283	18	2,346	11,438	2,061	4,230	9,833	43,303	<sup>1</sup> 10,094	<sup>2</sup> 49,670	(NA)	(NA)	(NA)
144	Mineral industry.....	227	15	1,869	9,171	1,584	3,276	7,566	30,507	8,439	35,219	3,727	1,597	16,392
	Included in manufactures....	56	3	<sup>2</sup> 477	<sup>2</sup> 2,267	<sup>2</sup> 477	954	2,267	12,796	<sup>1</sup> 1,655	<sup>2</sup> 14,451	(NA)	(NA)	(NA)
145	Clay and related minerals (mineral industries only).....	70	11	670	3,251	545	1,144	2,521	12,863	5,898	16,721	2,040	(NA)	(NA)
147	Chemical and fertilizer minerals.....	72	21	5,106	29,419	3,959	7,648	21,491	83,438	29,507	107,357	5,588	(NA)	(NA)
149	Miscellaneous minerals, nec, (mineral industries only)....	97	11	1,075	5,050	877	1,808	3,616	12,448	8,145	16,767	3,826	(NA)	(NA)
	Montana:													
	Nonmetallic minerals mining...	70	6	767	3,995	666	1,314	3,325	11,318	<sup>1</sup> 3,853	<sup>2</sup> 13,871	(NA)	<sup>4</sup> 914	<sup>6</sup> 48,769
14	Mineral industries.....	57	6	725	3,816	624	1,235	3,146	10,257	3,705	12,662	1,300	877	7,694
	Included in manufactures....	13	...	<sup>2</sup> 42	<sup>2</sup> 179	<sup>2</sup> 42	79	179	1,061	<sup>1</sup> 148	<sup>2</sup> 1,209	(NA)	<sup>4</sup> 37	<sup>6</sup> 41,075
	Crushed and broken stone.....	10	...	<sup>2</sup> 57	<sup>2</sup> 238	<sup>2</sup> 49	81	213	993	<sup>1</sup> 239	<sup>2</sup> 1,161	<sup>3</sup> 71	<sup>2</sup> 114	<sup>9</sup> 92
	Sand and gravel.....	39	2	<sup>2</sup> 202	<sup>2</sup> 1,007	<sup>2</sup> 178	346	836	3,664	<sup>1</sup> 946	<sup>2</sup> 3,867	(NA)	(NA)	(NA)
144	Mineral industry.....	32	2	192	968	168	327	797	3,467	932	3,656	743	215	1,337

See footnotes at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 2A.—General Statistics for Nonmetallic Minerals Mining Operations for Industry Groups, by Divisions, States, Alaska, and Hawaii: 1958 and 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	1958										1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and purchased machinery installed	Value of shipments and receipts	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Pay-roll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
	DIVISION AND STATE—Continued													
	Mountain—Continued													
147	Chemical and fertilizer minerals.....	6	3	359	2,011	308	614	1,643	4,899	2,073	6,526	446	422	3,834
149	Miscellaneous minerals, nec (mineral industries only)....	9	1	134	696	119	252	591	1,498	536	1,999	35	157	2,570
	Idaho:													
142	Crushed and broken stone (mineral industry only).....	11	1	85	411	77	124	364	705	536	1,135	106	(NA)	(NA)
	Sand and gravel.....	34	1	212	854	192	348	780	3,102	1,079	24,064	(NA)	(NA)	(NA)
144	Mineral industry.....	25	1	178	705	158	280	631	1,760	954	2,597	117	195	1,868
	Included in manufactures.....	9	...	34	149	34	68	149	1,342	125	1,467	(NA)	(NA)	(NA)
	Wyoming.....	57	13	1,073	5,354	841	1,715	4,044	19,341	18,008	25,257	(NA)	1,058	19,921
14	Mineral industries.....	45	13	1,041	5,201	809	1,653	3,891	18,511	7,826	24,245	2,092	1,027	19,583
	Included in manufactures.....	12	...	32	153	32	62	153	830	182	1,012	(NA)	31	238
142	Crushed and broken stone (mineral industry only).....	4	1	87	392	74	158	335	585	267	834	18	142	1,103
144	Sand and gravel (mineral industry only).....	16	1	94	405	84	178	376	1,053	319	1,197	175	81	319
147	Chemical and fertilizer minerals.....	7	3	552	3,032	407	784	2,120	9,860	3,701	12,578	983	573	7,503
	Colorado.....	164	12	1,242	5,992	1,069	2,330	5,048	17,998	15,631	22,646	983	(NA)	(NA)
14	Mineral industries.....	139	9	1,078	5,305	909	2,005	4,375	11,548	5,012	15,599	961	(NA)	(NA)
	Included in manufactures.....	25	3	164	687	160	325	673	6,450	1,619	27,047	322	140	2,994
	Dimension stone.....	17	...	61	216	51	120	177	389	213	537	65	79	343
142	Crushed and broken stone (mineral industry only).....	12	3	216	1,098	192	385	948	2,002	1,008	2,845	165	113	2,849
	Sand and gravel.....	63	4	520	2,559	421	924	2,047	7,982	12,270	29,884	(NA)	(NA)	(NA)
144	Mineral industry.....	55	3	457	2,302	358	798	1,790	5,639	2,069	7,340	368	482	5,028
	Included in manufactures.....	8	1	63	257	63	126	257	2,343	201	2,544	(NA)	(NA)	(NA)
	Clay and related minerals.....	46	...	112	2453	100	195	390	1,427	1442	21,720	(NA)	197	1,774
145	Mineral industries.....	39	...	91	376	79	155	313	830	380	1,061	149	132	1,020
147	Chemical and fertilizer minerals.....	7	3	230	1,213	207	510	1,055	2,358	1,308	3,481	185	17219	172,336
	New Mexico.....	82	13	4,160	23,758	3,229	6,194	17,302	69,316	122,435	286,781	(NA)	(NA)	(NA)
14	Mineral industries.....	73	13	4,091	23,478	3,161	6,065	17,023	67,142	22,168	84,340	4,970	(NA)	(NA)
	Included in manufactures.....	9	...	69	280	68	129	279	2,174	1267	2,441	(NA)	(NA)	(NA)
	Sand and gravel.....	31	4	359	1,550	320	645	1,293	5,826	11,542	26,551	(NA)	(NA)	(NA)
144	Mineral industry.....	26	4	309	1,323	270	545	1,066	3,769	1,309	4,261	817	161	3,092
	Included in manufactures.....	5	...	50	227	50	100	227	2,057	1233	2,290	(NA)	(NA)	(NA)
147	Chemical and fertilizer minerals.....	18	7	3,554	21,123	2,695	5,052	15,105	60,470	19,077	76,202	3,345	(NA)	(NA)
149	Miscellaneous minerals, nec...	20	2	170	785	147	374	651	2,221	1,447	2,931	737	(NA)	(NA)
	Arizona:													
	Nonmetallic minerals mining...	111	6	861	3,275	805	1,502	3,024	10,926	13,333	213,518	(NA)	13597	134,617
14	Mineral industries.....	93	3	535	1,674	479	853	1,423	4,408	2,116	5,783	741	13538	133,755
	Included in manufactures.....	18	3	326	1,601	326	649	1,601	6,518	11,217	27,735	(NA)	459	4862
142	Crushed and broken stone (mineral industry only).....	15	...	58	201	49	85	170	519	283	745	57	972	9793
	Sand and gravel.....	44	2	390	1,761	378	712	1,726	6,280	11,435	27,564	(NA)	(NA)	(NA)
144	Mineral industry.....	33	...	108	360	96	149	325	993	516	1,358	151	121	1,349
	Included in manufactures.....	11	2	282	1,401	282	563	1,401	5,287	1919	26,206	(NA)	(NA)	(NA)
149	Miscellaneous minerals, nec...	20	3	281	832	250	466	660	2,258	1,007	2,861	404	180	1,126
	Utah:													
	Crushed and broken stone.....	15	2	323	2,123	281	600	1,738	6,622	11,800	27,866	3556	2150	1,235
	Sand and gravel.....	33	2	406	2,429	353	764	2,076	13,325	11,917	213,978	1,264	(NA)	(NA)
144	Mineral industry.....	26	2	379	2,308	326	710	1,955	12,030	1,772	12,538	1,264	161	1,409
148	Nonmetallic minerals services.	3	1	95	437	84	170	371	494	169	607	56	(NA)	(NA)

See footnotes at end of table.



Table 2A.—General Statistics for Nonmetallic Minerals Mining Operations for Industry Groups, by Divisions, States, Alaska, and Hawaii: 1958 and 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	1958										1954		
		Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and pur- chased machin- ery in- stalled	Value of ship- ments and re- ceipts	Capi- tal ex- pendi- tures	All em- ploy- ees, number	Value added in mining
		Total	With 20 or more em- ploy- ees	Number	Pay- roll  (\$1,000)	Number	Man- hours  (1,000)	Wages  (\$1,000)						
	DIVISION AND STATE—Continued													
	Mountain—Continued													
	Nevada:													
142	Crushed and broken stone (mineral industry only).....	4	1	69	465	45	81	193	301	1,971	571	1,701	<sup>9</sup> 125	<sup>9</sup> 1,369
144	Sand and gravel (mineral industry only).....	14	2	152	800	124	289	626	1,796	568	2,272	92	181	1,990
147	Chemical and fertilizer minerals.....	15	...	54	235	54	110	235	749	249	927	71	(NA)	(NA)
149	Miscellaneous minerals, nec (mineral industries only)....	14	3	160	917	113	271	655	1,967	3,243	3,056	2,154	(NA)	(NA)
14	Pacific.....	918	138	12,260	68,584	9,636	20,684	51,798	196,382	<sup>1</sup> 76,239	<sup>2</sup> 251,921	<sup>3</sup> 20,700	<sup>4</sup> 12,656	<sup>4</sup> 155,228
	Mineral industries.....	750	120	10,884	61,616	8,270	17,976	44,895	162,643	68,981	210,975	20,649	<sup>11</sup> 735	<sup>13</sup> 7,546
	Included in manufactures.....	168	18	<sup>2</sup> 1,376	<sup>2</sup> 6,968	<sup>2</sup> 1,366	2,708	6,903	33,739	<sup>1</sup> 7,258	<sup>2</sup> 40,946	<sup>3</sup> 51	<sup>4</sup> 921	<sup>4</sup> 17,682
141	Dimension stone.....	43	2	174	750	157	291	669	1,658	567	2,113	112	131	832
	Mineral industry.....	27	...	68	254	61	122	238	785	250	974	61	} 131	832
	Included in manufactures.....	16	2	106	496	96	169	431	873	317	1,139	51		
142	Crushed and broken stone.....	187	35	2,400	12,825	2,146	4,747	11,242	37,481	<sup>1</sup> 12,916	<sup>2</sup> 48,196	(NA)	} 2,452	33,243
	Mineral industry.....	165	25	1,752	9,503	1,498	3,451	7,920	21,245	8,723	27,767	2,201		
	Included in manufactures.....	22	10	<sup>2</sup> 648	<sup>2</sup> 3,322	<sup>2</sup> 648	1,296	3,322	16,236	<sup>1</sup> 4,193	<sup>2</sup> 20,429	(NA)		
144	Sand and gravel.....	455	79	5,161	28,824	4,169	8,884	22,748	85,901	<sup>1</sup> 31,202	<sup>2</sup> 108,944	(NA)	(NA)	(NA)
	Mineral industry.....	381	75	4,727	26,507	3,735	8,016	20,431	73,058	29,398	94,297	8,159	5,639	71,708
	Included in manufactures.....	74	4	<sup>2</sup> 434	<sup>2</sup> 2,317	<sup>2</sup> 434	868	2,317	12,843	<sup>1</sup> 1,804	<sup>2</sup> 14,647	(NA)	(NA)	(NA)
	Clay and related minerals (mineral industries only).....	49	5	454	2,245	397	679	1,851	6,037	2,813	8,298	552	(NA)	(NA)
149	Miscellaneous minerals, nec (mineral industries only).....	105	8	1,150	5,803	872	1,905	4,038	18,592	7,372	24,075	1,889	(NA)	(NA)
14	Washington.....	168	17	1,246	6,296	1,077	1,844	5,289	16,979	<sup>1</sup> 6,354	<sup>2</sup> 21,488	<sup>3</sup> 1,845	<sup>4</sup> 1,614	<sup>4</sup> 15,834
	Mineral industries.....	129	15	1,045	5,210	879	1,449	4,226	12,510	<sup>1</sup> 5,724	<sup>2</sup> 16,404	1,830	<sup>1</sup> 482	<sup>12</sup> 998
	Included in manufactures....	39	2	<sup>2</sup> 201	<sup>2</sup> 1,086	<sup>2</sup> 198	395	1,063	4,469	<sup>1</sup> 630	<sup>2</sup> 5,084	<sup>3</sup> 15	<sup>4</sup> 132	<sup>4</sup> 2,836
142	Crushed and broken stone (mineral industry only).....	41	4	385	1,869	323	509	1,507	3,552	1,895	4,660	787	<sup>9</sup> 452	<sup>9</sup> 5,489
144	Sand and gravel.....	81	9	517	2,639	450	847	2,280	9,157	2,986	<sup>2</sup> 11,234	(NA)	(NA)	(NA)
	Mineral industry.....	61	9	427	2,148	360	667	1,789	5,942	2,634	7,667	909	914	8,601
	Included in manufactures....	20	...	290	<sup>2</sup> 491	290	180	491	3,215	<sup>1</sup> 352	<sup>2</sup> 3,567	(NA)	(NA)	(NA)
145	Clay and related minerals.....	15	1	<sup>2</sup> 204	<sup>2</sup> 1,080	<sup>2</sup> 177	241	863	2,618	<sup>1</sup> 949	<sup>2</sup> 3,492	<sup>3</sup> 75	(NA)	(NA)
14	Oregon.....	155	12	1,078	5,302	910	1,777	4,444	11,566	<sup>1</sup> 6,568	<sup>2</sup> 16,578	<sup>3</sup> 1,556	<sup>4</sup> 1,315	<sup>4</sup> 12,432
	Mineral industries.....	126	10	931	4,642	763	1,489	3,784	8,812	6,148	13,404	1,556	1,264	11,910
	Included in manufactures....	29	2	<sup>2</sup> 147	<sup>2</sup> 660	<sup>2</sup> 147	288	660	2,754	<sup>1</sup> 420	<sup>2</sup> 3,174	(NA)	<sup>4</sup> 51	<sup>4</sup> 522
142	Crushed and broken stone (mineral industry only).....	42	4	301	1,411	253	481	1,227	2,899	1,526	4,111	314	<sup>9</sup> 260	<sup>9</sup> 2,412
144	Sand and gravel.....	86	6	591	3,015	496	979	2,476	7,058	<sup>1</sup> 3,982	<sup>2</sup> 9,956	(NA)	(NA)	(NA)
	Mineral industry.....	70	5	532	2,760	437	862	2,221	5,059	3,889	7,864	1,084	913	8,932
	Included in manufactures....	16	1	<sup>2</sup> 59	<sup>2</sup> 255	<sup>2</sup> 59	117	255	1,999	<sup>1</sup> 93	<sup>2</sup> 2,092	(NA)	(NA)	(NA)
149	Miscellaneous minerals, nec...	7	1	76	364	53	110	244	568	501	1,021	48	(NA)	(NA)
14	California.....	595	109	9,936	56,986	7,649	17,063	42,065	167,837	<sup>1</sup> 63,317	<sup>2</sup> 213,855	<sup>3</sup> 17,299	<sup>4</sup> 9,727	<sup>4</sup> 126,962
	Mineral industries.....	495	95	8,908	51,764	6,628	15,038	36,885	141,321	57,109	181,167	17,263	8,989	112,638
	Included in manufactures....	100	14	<sup>2</sup> 1,028	<sup>2</sup> 5,222	<sup>2</sup> 1,021	2,025	5,180	26,516	<sup>1</sup> 6,208	<sup>2</sup> 32,688	<sup>3</sup> 36	<sup>4</sup> 738	<sup>4</sup> 14,324
141	Dimension stone.....	31	...	119	486	107	195	435	1,127	424	1,462	89	65	455
	Mineral industry.....	23	...	51	186	46	91	177	604	227	778	53	27	134
	Included in manufactures....	8	...	68	300	61	104	258	523	197	684	36	38	321
142	Crushed and broken stone.....	97	26	1,598	8,935	1,454	3,526	7,898	29,577	<sup>1</sup> 9,149	<sup>2</sup> 37,626	(NA)	<sup>18</sup> 1,740	<sup>18</sup> 25,342
	Mineral industry.....	82	17	1,066	6,223	922	2,461	5,186	14,794	5,302	18,996	1,100	<sup>18</sup> 1,240	<sup>18</sup> 14,854
	Included in manufactures....	15	9	<sup>2</sup> 532	<sup>2</sup> 2,712	<sup>2</sup> 532	1,065	2,712	14,783	<sup>1</sup> 3,847	<sup>2</sup> 18,630	(NA)	(NA)	(NA)
144	Sand and gravel.....	288	64	4,053	23,170	3,223	7,058	17,992	69,686	<sup>1</sup> 24,234	<sup>2</sup> 87,754	(NA)	(NA)	(NA)
	Mineral industry.....	250	61	3,768	21,599	2,938	6,487	16,421	62,057	22,875	78,766	6,166	3,812	54,175
	Included in manufactures....	38	3	<sup>2</sup> 285	<sup>2</sup> 1,571	<sup>2</sup> 285	571	1,571	7,629	<sup>1</sup> 1,359	<sup>2</sup> 8,988	(NA)	(NA)	(NA)
145	Clay and related minerals (mineral industries only)....	40	4	263	1,198	235	468	1,036	3,265	1,734	4,629	370	213	1,919
147	Chemical and fertilizer minerals.....	18	7	2,714	17,242	1,692	3,778	10,365	42,844	20,283	55,418	7,709	2,540	30,341
149	Miscellaneous minerals, nec...	80	6	1,032	5,261	785	1,734	3,655	17,694	6,552	22,459	1,787	(NA)	(NA)

See footnotes at end of table.

Table 2A.—General Statistics for Nonmetallic Minerals Mining Operations for Industry Groups, by Divisions, States, Alaska, and Hawaii: 1958 and 1954—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	1958										1954		
		Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc. and pur- chased machin- ery in- stalled	Value of ship- ments and re- ceipts	Capi- tal ex- pendi- tures	All em- ploy- ees, number	Value added in mining
		Total	With 20 or more em- ploy- ees	Number	Pay- roll  (\$1,000)	Number	Man- hours  (1,000)	Wages  (\$1,000)						
	DIVISION AND STATE—Continued													
14	Alaska.....	8	1	267	2321	260	112	289	782	1224	21,006	(NA)	(NA)	(NA)
	Mineral industries.....	4	1	55	228	48	92	196	388	194	582	...	30	(14)
14	Hawaii.....	24	8	445	1,820	391	793	1,522	4,887	12,024	26,207	(NA)	4171	41,266
	Mineral industries <sup>15</sup> .....	20	8	421	1,724	367	746	1,426	4,550	2,001	5,847	704	4171	41,266
	Included in manufactures.....	4	...	224	296	224	47	96	337	123	2360	(NA)		
142	Crushed and broken stone (mineral industry only).....	12	7	326	1,400	283	580	1,142	3,631	1,600	4,605	626	9169	91,112
149	Sand and gravel.....	4	1	272	2268	267	133	248	823	1224	21,014	333	(NA)	(NA)
	Miscellaneous minerals, nec (Pumice and pumicite).....	6	...	38	115	32	62	95	329	196	480	45	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.<sup>2</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the number of production and development workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production and development workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.<sup>3</sup>Excludes figures for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.<sup>4</sup>Excludes data for sand and gravel mining operations in manufacturing establishments. See also footnote 2.<sup>5</sup>Includes figures for separately reported central offices and related facilities in the Oil and Gas Extraction Industries.<sup>6</sup>Includes figures for separately reported central offices and related facilities in the Bituminous Coal Industry.<sup>7</sup>Except for number of establishments, includes figures for the Indiana operations of one service establishment primarily engaged in metal mining services in other States.<sup>8</sup>Excludes data for separately reported central offices and related facilities in the Bentonite Industry. Such figures are included in the totals shown for the State.<sup>9</sup>Includes data for mining operations in manufacturing establishments.<sup>10</sup>Excludes data for mining operations in manufacturing establishments.<sup>11</sup>Includes figures for the Kentucky operations of 4 service establishments primarily engaged in metal mining services in other States.<sup>12</sup>Except for number of establishments, includes figures for the Louisiana operations of one service establishment primarily engaged in metal mining services in other States.<sup>13</sup>Data for Bituminous Coal Mining and Oil and Gas Extraction are included with the data for Nonmetallic Minerals Mining. See also footnote 4.<sup>14</sup>Not shown since the cost of supplies, purchases for resale, minerals received for preparation, purchased fuels and electricity, contract work, and purchased machinery installed exceeds the sum of the value of shipments and receipts and capital expenditures.<sup>15</sup>Except for number of establishments, includes figures for the Hawaii operations of one service establishment primarily engaged in metal mining services in Nevada.<sup>16</sup>Includes data for one metal mining establishment with 5 to 9 employees.<sup>17</sup>Represents data for the Fluorospas Industry only.<sup>18</sup>Excludes data for one crushed and broken marble establishment.



Table 2B.—Selected Expenditures and Net Shipments of Primary Products of the Nonmetallic Minerals Mining Industries for Selected Industry Groups, by Divisions, Selected States, and Hawaii: 1958

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	Selected expenses (\$1,000)					Capital expenditures (\$1,000)			Net shipments of primary products <sup>1</sup>			
		Total	Supplies, purchases for re-sale, and purchased fuels and electricity	Minerals received for preparation	Contract work	Purchased machinery installed	Total	Development and exploration of mineral property	Plant and other construction, machinery, and equipment <sup>2</sup>	By establishments classified in the industry		By establishments classified in other mineral industries and in manufacturing industries <sup>3</sup>	
										Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
	United States, total.....	673,186	441,564	50,218	51,898	129,506	188,998	7,781	181,217	xxx	xxx	xxx	xxx
141	Dimension stone.....	3,989	3,078	...	380	531	1,201	52	1,149	1,234	15,275	428	6,879
142	Crushed and broken stone.....	239,008	169,344	2,185	16,241	51,238	68,720	1,959	66,761	385,898	580,851	96,508	150,791
144	Sand and gravel.....	182,900	128,194	870	15,367	38,469	56,562	1,842	54,720	481,251	518,457	68,998	72,731
145	Clay and related minerals.....	48,567	34,485	874	3,864	9,344	13,197	753	12,444	xxx	xxx	xxx	xxx
147	Chemical and fertilizer minerals.....	168,589	85,863	46,019	13,334	23,373	39,130	2,139	36,991	xxx	xxx	xxx	xxx
148	Nonmetallic minerals services....	2,565	1,719	...	146	700	848	...	848	xxx	xxx	xxx	xxx
149	Miscellaneous minerals, nec.....	27,568	18,881	270	2,566	5,851	9,340	1,036	8,304	xxx	xxx	xxx	xxx
	DIVISION AND STATE												
14	New England.....	15,627	11,430	122	1,382	2,693	3,970	131	3,839	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	6,113	4,988	...	324	801	1,015	4	1,011	7,763	15,426	2,164	5,387
144	Sand and gravel.....	6,821	4,542	( <sup>4</sup> )	798	1,481	2,303	7	2,296	17,037	522,872	4,037	( <sup>5</sup> )
149	Miscellaneous minerals, nec..	1,925	1,431	...	224	270	419	118	301	xxx	xxx	xxx	xxx
	Maine:												
142	Crushed and broken stone.....	419	384	...	...	35	35	...	35	156	51,005	812	( <sup>5</sup> )
144	Sand and gravel.....	419	250	...	57	112	217	...	217	1,176	51,298	228	( <sup>5</sup> )
149	Miscellaneous minerals, nec..	190	126	...	7	57	128	79	49	xxx	xxx	xxx	xxx
	New Hampshire.....	1,113	632	112	195	174	224	2	222	xxx	xxx	xxx	xxx
144	Sand and gravel.....	594	4390	( <sup>4</sup> )	140	64	87	...	87	986	51,249	94	( <sup>5</sup> )
	Vermont:												
142	Crushed and broken stone.....	1,184	1,115	...	2	67	186	...	186	189	53,367	227	( <sup>5</sup> )
144	Sand and gravel.....	458	289	...	44	125	217	...	217	782	5918	52	( <sup>5</sup> )
149	Miscellaneous minerals, nec..	1,363	1,075	...	167	121	172	38	134	xxx	xxx	xxx	xxx
	Massachusetts.....	4,754	3,376	...	416	962	1,227	4	1,223	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	1,843	1,403	...	111	329	339	4	335	3,171	5,717	465	1,642
144	Sand and gravel.....	2,903	1,965	...	305	633	885	...	885	7,659	511,366	3,061	( <sup>5</sup> )
14	Rhode Island.....	475	258	...	56	161	222	3	219	xxx	xxx	xxx	xxx
144	Sand and gravel.....	400	191	...	56	153	194	3	191	1,219	51,316	44	( <sup>5</sup> )
	Connecticut:												
142	Crushed and broken stone.....	2,594	2,019	...	211	364	431	...	431	4,135	6,120	575	741
144	Sand and gravel.....	2,047	41,457	( <sup>4</sup> )	196	394	703	4	699	5,215	56,687	6566	( <sup>5</sup> )
14	Middle Atlantic.....	75,970	54,433	(D)	(D)	15,835	20,779	(D)	(D)	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	46,505	34,434	137	3,400	8,534	12,994	837	12,157	58,281	113,774	19,541	33,518
144	Sand and gravel.....	21,070	14,161	162	1,511	5,236	4,898	199	4,699	46,501	570,900	5,867	( <sup>5</sup> )
14	New York.....	24,872	18,129	(D)	(D)	5,234	8,472	(D)	(D)	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	12,616	9,210	117	481	2,808	4,880	374	4,506	18,961	37,398	5,799	10,242
144	Sand and gravel.....	7,325	(D)	(D)	810	1,646	2,206	91	2,115	25,524	532,423	2,110	( <sup>5</sup> )
14	New Jersey.....	12,557	9,357	80	829	2,291	2,965	124	2,841	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	5,712	4,542	...	432	738	953	35	918	7,308	18,202	135	200
144	Sand and gravel.....	6,006	44,393	( <sup>4</sup> )	394	1,219	1,606	83	1,523	9,984	518,914	2,194	( <sup>5</sup> )
14	Pennsylvania.....	38,541	26,947	119	3,165	8,310	9,342	533	8,809	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	28,177	20,682	20	2,487	4,988	7,161	428	6,733	32,012	58,174	13,607	23,076
144	Sand and gravel.....	7,739	(D)	(D)	307	2,371	1,086	25	1,061	10,993	519,563	1,596	( <sup>5</sup> )
14	East North Central.....	110,696	481,231	( <sup>4</sup> )	7,867	21,598	32,887	1,120	31,767	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	52,335	39,407	888	2,370	9,670	15,122	421	14,701	104,242	142,040	17,765	25,244
144	Sand and gravel.....	46,396	31,769	152	4,404	10,071	14,457	276	14,181	131,027	5148,907	9,283	( <sup>5</sup> )
145	Clay and related minerals.....	3,537	2,331	150	377	679	1,232	11	1,221	xxx	xxx	xxx	xxx
	Ohio:												
142	Crushed and broken stone.....	15,272	11,082	304	687	3,199	3,753	71	3,682	24,295	37,811	10,924	16,015
144	Sand and gravel.....	10,206	46,596	( <sup>4</sup> )	658	2,952	3,805	84	3,721	29,513	538,500	2,167	( <sup>5</sup> )
145	Clay and related minerals.....	1,500	862	150	171	317	354	4	350	xxx	xxx	xxx	xxx
14	Indiana.....	14,849	49,841	( <sup>4</sup> )	933	4,075	5,479	154	5,325	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	7,519	44,789	( <sup>4</sup> )	286	2,444	3,332	119	3,213	11,979	16,871	2,268	2,468
144	Sand and gravel.....	5,937	44,142	( <sup>4</sup> )	507	1,288	1,646	22	1,624	17,412	517,209	1,368	( <sup>5</sup> )

See footnotes at end of table.

Table 2B.—Selected Expenditures and Net Shipments of Primary Products of the Nonmetallic Minerals Mining Industries for Selected Industry Groups, by Divisions, Selected States, and Hawaii: 1958—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	Selected expenses (\$1,000)					Capital expenditures (\$1,000)			Net shipments of primary products <sup>1</sup>			
		Total	Supplies, purchases for resale, and purchased fuels and electricity	Minerals received for preparation	Contract work	Purchased machinery installed	Total	Development and exploration of mineral property	Plant and other construction, machinery, and equipment <sup>2</sup>	By establishments classified in the industry		By establishments classified in other mineral industries and in manufacturing industries <sup>3</sup>	
										Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
	DIVISION AND STATES—Continued												
	East North Central—Continued												
	Illinois:												
142	Crushed and broken stone.....	15,990	<sup>4</sup> 13,104	( <sup>4</sup> )	381	2,505	5,502	198	5,304	32,379	48,821	2,756	4,219
144	Sand and gravel.....	13,712	<sup>4</sup> 10,719	( <sup>4</sup> )	992	2,001	3,892	90	3,802	34,558	<sup>5</sup> 41,550	2,098	( <sup>5</sup> )
147	Chemical and fertilizer minerals (Fluorspar).....	4,012	<sup>4</sup> 3,052	( <sup>4</sup> )	527	433	975	391	584	150	7,675	( <sup>7</sup> )	5
14	Michigan.....	19,335	<sup>4</sup> 14,336	( <sup>4</sup> )	1,468	3,531	4,692	85	4,607	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	6,530	<sup>4</sup> 5,491	341	179	519	1,145	16	1,129	<sup>5</sup> 25,341	22,817	( <sup>5</sup> )	<sup>8</sup> 5
144	Sand and gravel.....	9,779	<sup>4</sup> 6,071	( <sup>4</sup> )	1,179	2,529	2,996	69	2,927	31,878	<sup>5</sup> 34,090	1,983	( <sup>5</sup> )
14	Wisconsin.....	14,019	<sup>4</sup> 9,764	( <sup>4</sup> )	1,917	2,338	3,609	28	3,581	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	7,024	<sup>4</sup> 5,184	( <sup>4</sup> )	837	1,003	1,390	17	1,373	<sup>5</sup> 12,065	15,720	( <sup>5</sup> )	106
144	Sand and gravel.....	6,762	<sup>4</sup> 4,393	( <sup>4</sup> )	1,068	1,301	2,118	11	2,107	17,666	<sup>5</sup> 17,557	1,667	( <sup>5</sup> )
	West North Central:												
142	Crushed and broken stone.....	34,184	21,764	119	3,716	8,585	11,246	242	11,004	54,257	76,598	12,852	19,942
144	Sand and gravel.....	20,699	13,905	120	2,528	4,146	7,039	602	6,437	55,939	<sup>5</sup> 57,199	4,894	( <sup>5</sup> )
149	Miscellaneous minerals, nec..	248	168	...	55	25	81	26	55	xxx	xxx	xxx	xxx
14	Minnesota.....	10,084	<sup>4</sup> 7,175	( <sup>4</sup> )	1,682	1,227	2,479	538	1,941	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	3,081	<sup>4</sup> 1,891	...	672	518	536	5	531	4,268	6,439	87	292
144	Sand and gravel.....	6,467	<sup>4</sup> 4,837	( <sup>4</sup> )	976	654	1,865	531	1,334	15,146	<sup>5</sup> 17,209	1,364	( <sup>5</sup> )
14	Iowa.....	16,858	10,780	106	1,984	3,988	5,787	135	5,652	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	13,535	8,518	106	1,773	3,138	4,457	128	4,329	19,522	27,369	2,184	3,002
144	Sand and gravel.....	3,237	2,202	...	199	836	1,309	7	1,302	9,607	<sup>5</sup> 10,493	675	( <sup>5</sup> )
	Missouri:												
142	Crushed and broken stone.....	10,469	<sup>4</sup> 6,529	( <sup>4</sup> )	678	3,262	3,688	88	3,600	17,594	24,524	6,960	11,486
144	Sand and gravel.....	3,162	<sup>4</sup> 1,914	( <sup>4</sup> )	434	812	896	20	876	7,235	<sup>8</sup> 8,623	553	( <sup>5</sup> )
145	Clay and related minerals....	2,127	1,719	...	212	196	368	75	293	xxx	xxx	xxx	xxx
14	South Dakota.....	3,041	<sup>4</sup> 2,218	( <sup>4</sup> )	177	646	1,435	37	1,398	xxx	xxx	xxx	xxx
	Nebraska:												
142	Crushed and broken stone.....	1,774	1,178	...	174	422	1,013	1	1,012	<sup>9</sup> 3,508	<sup>9</sup> 3,851	( <sup>5</sup> )	( <sup>5</sup> )
144	Sand and gravel.....	3,155	2,220	...	527	408	822	3	819	10,016	<sup>8</sup> 8,187	176	( <sup>5</sup> )
14	Kansas.....	7,663	5,074	13	677	1,899	2,238	49	2,189	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	4,734	3,200	13	413	1,108	1,302	20	1,282	8,762	11,824	2,589	3,478
144	Sand and gravel.....	2,314	1,376	...	196	742	846	25	821	7,585	<sup>5</sup> 7,417	1,442	( <sup>5</sup> )
14	South Atlantic.....	160,581	86,336	40,781	6,901	26,563	31,382	1,011	30,371	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	49,964	34,267	593	3,774	11,330	13,895	182	13,713	69,796	114,173	8,076	12,700
144	Sand and gravel.....	20,384	13,883	83	1,654	4,764	5,751	94	5,657	45,984	<sup>5</sup> 59,167	5,736	( <sup>5</sup> )
147	Chemical and fertilizer minerals.....	63,905	<sup>4</sup> 58,155	( <sup>4</sup> )	390	5,360	4,744	106	4,638	xxx	xxx	xxx	xxx
14	Delaware and Maryland.....	12,447	<sup>4</sup> 8,440	( <sup>4</sup> )	1,554	2,453	3,130	21	3,109	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	5,207	<sup>4</sup> 3,653	...	872	682	990	14	976	5,911	12,001	1,557	3,071
144	Sand and gravel.....	5,951	<sup>4</sup> 3,548	( <sup>4</sup> )	667	1,736	2,084	5	2,079	8,091	<sup>5</sup> 12,555	1,511	( <sup>5</sup> )
	Maryland.....	5,780	<sup>4</sup> 3,390	( <sup>4</sup> )	662	1,728	2,000	5	1,995	7,361	(NA)	(NA)	(NA)
14	Virginia.....	15,702	<sup>4</sup> 10,928	( <sup>4</sup> )	582	4,192	5,650	106	5,544	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	9,485	<sup>4</sup> 6,289	37	298	2,861	4,133	46	4,087	11,769	20,144	2,969	5,151
144	Sand and gravel.....	3,178	2,303	...	247	628	736	5	731	8,157	<sup>5</sup> 10,673	258	( <sup>5</sup> )
	West Virginia:												
142	Crushed and broken stone.....	2,697	2,244	...	189	264	469	27	442	5,061	9,003	<sup>9</sup> 167	<sup>9</sup> 71
144	Sand and gravel.....	2,390	1,658	...	16	716	427	12	415	4,952	<sup>8</sup> 8,647	216	( <sup>5</sup> )
	North Carolina:												
142	Crushed and broken stone.....	6,765	5,672	...	19	1,074	1,304	30	1,274	10,371	15,855	1,134	581
144	Sand and gravel.....	1,583	1,156	13	92	322	540	1	539	5,214	<sup>5</sup> 5,609	184	( <sup>5</sup> )
145	Clay and related minerals....	3,695	2,071	358	117	1,149	1,102	18	1,084	xxx	xxx	xxx	xxx
	South Carolina:												
142	Crushed and broken stone.....	3,062	2,486	...	103	473	516	...	516	<sup>5</sup> 4,869	6,722	( <sup>5</sup> )	(D)
144	Sand and gravel.....	1,820	1,165	...	52	603	839	5	834	3,952	<sup>5</sup> 4,085	7	( <sup>5</sup> )
14	Georgia.....	29,593	<sup>4</sup> 21,916	( <sup>4</sup> )	784	6,893	7,652	265	7,387	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	11,784	<sup>4</sup> 7,105	517	37	4,125	3,290	3	3,287	<sup>5</sup> 12,453	25,042	( <sup>5</sup> )	<sup>9</sup> 76
144	Sand and gravel.....	1,844	1,555	...	57	232	362	34	328	4,917	<sup>5</sup> 5,153	189	( <sup>5</sup> )
145	Clay and related minerals....	14,190	11,308	...	498	2,384	3,639	193	3,446	xxx	xxx	xxx	xxx

See footnotes at end of table.



Table 2B.—Selected Expenditures and Net Shipments of Primary Products of the Nonmetallic Minerals Mining Industries for Selected Industry Groups, by Divisions, Selected States, and Hawaii: 1958—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	Selected expenses (\$1,000)					Capital expenditures (\$1,000)			Net shipments of primary products <sup>1</sup>			
		Total	Supplies, purchases for re-sale, and purchased fuels and electricity	Minerals received for preparation	Contract work	Purchased machinery installed	Total	Development and exploration of mineral property	Plant and other construction, machinery, and equipment <sup>2</sup>	By establishments classified in the industry		By establishments classified in other mineral industries and in manufacturing industries <sup>3</sup>	
										Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
	DIVISION AND STATES—Continued												
	South Atlantic—Continued												
	Florida:												
142	Crushed and broken stone.....	10,964	6,818	39	2,256	1,851	3,193	62	3,131	20,412	25,406	9,199	9,658
144	Sand and gravel.....	3,618	42,568	(4)	523	527	763	32	731	10,701	512,054	3,133	(5)
1471 and 148	Phosphate rock and Non-minerals services.....	60,912	16,806	38,655	183	5,268	4,416	66	4,350	12,136	75,888	...	...
14	East South Central.....	43,458	431,565	(4)	2,758	9,135	12,163	372	11,791	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	21,994	14,796	318	1,088	5,792	6,680	112	6,568	36,490	51,704	7,954	9,897
144	Sand and gravel.....	8,593	45,706	(4)	820	2,067	3,629	56	3,573	20,664	523,381	1,290	(5)
145	Clay and related minerals....	3,609	2,799	...	367	443	701	81	620	xxx	xxx	xxx	xxx
14	Kentucky <sup>10</sup> .....	13,120	8,403	471	764	3,482	4,238	119	4,119	xxx	xxx	xxx	xxx
142	Crushed and broken stone....	9,275	6,150	11	395	2,719	2,902	40	2,862	15,381	21,043	4	14
14	Tennessee.....	21,488	13,545	2,738	1,515	3,690	4,593	147	4,446	xxx	xxx	xxx	xxx
142	Crushed and broken stone....	9,464	6,354	307	583	2,220	2,570	27	2,543	14,838	20,540	2,636	2,960
144	Sand and gravel.....	2,741	41,561	(4)	438	742	1,008	17	991	5,878	57,852	836	(5)
14	Alabama.....	4,948	3,523	...	171	1,254	2,154	92	2,062	xxx	xxx	xxx	xxx
14	Mississippi.....	3,990	2,961	10	308	711	1,180	14	1,166	xxx	xxx	xxx	xxx
144	Sand and gravel.....	3,205	(D)	(D)	198	618	1,114	14	1,100	6,915	57,070	6126	(5)
14	West South Central.....	78,886	50,515	1,453	9,405	17,513	29,111	299	28,812	xxx	xxx	xxx	xxx
142	Crushed and broken stone....	13,028	9,766	27	360	2,875	2,847	31	2,816	23,112	28,919	8,428	2,636
144	Sand and gravel.....	21,100	415,553	(4)	1,016	4,531	6,599	89	6,510	45,927	561,580	6,873	(5)
147	Chemical and fertilizer minerals.....	37,900	420,472	(4)	7,477	8,731	18,251	174	18,077	xxx	xxx	xxx	xxx
14	Arkansas.....	5,488	4,037	...	125	1,326	1,180	122	1,058	xxx	xxx	xxx	xxx
147	Chemical and fertilizer minerals.....	1,272	1,226	...	(D)	(D)	170	(D)	(D)	xxx	xxx	xxx	xxx
14	Louisiana <sup>11</sup> .....	31,467	15,647	42	6,471	9,307	18,833	33	18,800	xxx	xxx	xxx	xxx
144	Sand and gravel.....	6,984	5,203	...	408	1,373	1,777	24	1,753	13,283	516,465	180	(5)
14	Oklahoma.....	6,383	4,802	...	175	1,406	1,349	2	1,347	xxx	xxx	xxx	xxx
142	Crushed and broken stone....	4,372	3,331	...	112	929	916	...	916	7,959	8,551	91,082	91
14	Texas.....	35,047	25,533	1,406	2,634	5,474	7,722	94	7,628	xxx	xxx	xxx	xxx
142	Crushed and broken stone....	6,657	5,207	27	212	1,211	1,708	31	1,677	10,895	15,329	6,416	7,969
144	Sand and gravel.....	11,094	48,048	(4)	513	2,533	4,127	63	4,064	25,874	533,803	2,944	(5)
147	Chemical and fertilizer minerals.....	12,929	9,471	1,180	1,473	805	1,113	...	1,113	xxx	xxx	xxx	xxx
14	Mountain.....	59,007	38,928	716	6,297	13,066	18,271	1,837	16,434	xxx	xxx	xxx	xxx
142	Crushed and broken stone....	6,162	3,498	13	481	2,170	2,720	57	2,663	14,189	13,031	4,712	8,003
144	Sand and gravel.....	8,439	46,751	(4)	470	1,218	3,727	70	3,657	47,205	548,001	11,992	(5)
145	Clay and related minerals....	5,898	43,941	(4)	985	972	2,040	138	1,902	xxx	xxx	xxx	xxx
147	Chemical and fertilizer minerals.....	29,507	420,798	(4)	3,169	5,540	5,588	1,162	4,426	xxx	xxx	xxx	xxx
149	Miscellaneous minerals, nec..	5,210	42,151	(4)	573	2,486	2,881	139	2,742	xxx	xxx	xxx	xxx
14	Montana.....	3,705	42,425	(4)	1,002	278	1,300	438	862	xxx	xxx	xxx	xxx
147	Chemical and fertilizer minerals.....	2,073	1,152	...	877	44	446	408	38	xxx	xxx	xxx	xxx
14	Wyoming.....	7,826	45,299	(4)	897	1,630	2,092	173	1,919	xxx	xxx	xxx	xxx
147	Chemical and fertilizer minerals.....	3,701	42,936	(4)	64	701	983	(D)	(D)	xxx	xxx	xxx	xxx
14	Colorado.....	5,012	43,998	(4)	434	580	961	129	832	xxx	xxx	xxx	xxx
144	Sand and gravel.....	2,069	41,709	(4)	122	238	368	20	348	7,258	59,099	2,248	(5)
14	New Mexico.....	22,168	16,014	10	685	5,459	4,970	414	4,556	xxx	xxx	xxx	xxx
147	Chemical and fertilizer minerals.....	19,077	414,211	(4)	487	4,379	3,345	320	3,025	xxx	xxx	xxx	xxx
14	Arizona.....	2,116	41,575	(4)	212	329	741	110	631	xxx	xxx	xxx	xxx

See footnotes at end of table.

Table 2B.—Selected Expenditures and Net Shipments of Primary Products of the Nonmetallic Minerals Mining Industries for Selected Industry Groups, by Divisions, Selected States, and Hawaii: 1958—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry group, division, and State	Selected expenses (\$1,000)					Capital expenditures (\$1,000)			Net shipments of primary products <sup>1</sup>			
		Total	Supplies, purchases for resale, and purchased fuels and electricity	Minerals received for preparation	Contract work	Purchased machinery installed	Total	Development and exploration of mineral property	Plant and other construction, machinery, and equipment <sup>2</sup>	By establishments classified in the industry		By establishments classified in other mineral industries and in manufacturing industries <sup>3</sup>	
										Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
	DIVISION AND STATES—Continued												
	Mountain—Continued												
144	Utah:												
	Sand and gravel.....	1,772	1,560	...	49	163	1,264	1	1,263	25,306	<sup>5</sup> 13,917	1,424	( <sup>5</sup> )
144	Nevada:												
	Sand and gravel.....	568	468	...	3	97	92	1	91	1,693	<sup>5</sup> 2,195	25	( <sup>5</sup> )
14	Pacific.....	68,981	<sup>4</sup> 54,107	( <sup>4</sup> )	5,038	9,836	20,649	803	19,846	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	8,723	6,424	90	728	1,481	2,201	73	2,128	17,768	25,186	15,016	22,729
144	Sand and gravel.....	29,398	22,176	101	2,166	4,955	8,159	449	7,710	70,967	<sup>5</sup> 100,454	14,160	( <sup>5</sup> )
145	Clay and related minerals.....	2,813	<sup>4</sup> 2,106	( <sup>4</sup> )	242	465	552	29	523	xxx	xxx	xxx	xxx
149	Miscellaneous minerals, nec..	7,372	<sup>4</sup> 6,101	( <sup>4</sup> )	676	595	1,889	68	1,821	xxx	xxx	xxx	xxx
14	Washington.....	5,724	<sup>4</sup> 4,048	( <sup>4</sup> )	429	1,247	1,830	79	1,751	xxx	xxx	xxx	xxx
144	Sand and gravel.....	2,634	1,923	...	123	588	909	32	877	8,264	<sup>5</sup> 11,399	3,512	( <sup>5</sup> )
14	Oregon.....	6,148	4,357	77	486	1,228	1,556	20	1,536	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	1,526	<sup>4</sup> 1,099	( <sup>4</sup> )	147	280	314	...	314	2,857	<sup>5</sup> 4,489	854	( <sup>5</sup> )
144	Sand and gravel.....	3,889	<sup>4</sup> 2,747	( <sup>4</sup> )	292	850	1,084	1	1,083	4,903	<sup>5</sup> 8,780	1,649	( <sup>5</sup> )
14	California.....	57,109	44,813	861	4,073	7,362	17,263	704	16,559	xxx	xxx	xxx	xxx
142	Crushed and broken stone.....	5,302	4,219	78	385	620	1,100	35	1,065	11,723	16,716	13,523	20,728
144	Sand and gravel.....	22,875	<sup>4</sup> 17,607	( <sup>4</sup> )	1,751	3,517	6,166	416	5,750	57,800	<sup>5</sup> 80,301	8,994	( <sup>5</sup> )
147	Chemical and fertilizer												
	minerals.....	20,283	<sup>4</sup> 16,984	( <sup>4</sup> )	1,044	2,255	7,709	184	7,525	xxx	xxx	xxx	xxx
149	Miscellaneous minerals, nec..	6,552	<sup>4</sup> 5,389	( <sup>4</sup> )	588	575	1,787	47	1,740	xxx	xxx	xxx	xxx
14	Hawaii.....	2,001	1,205	...	128	668	704	...	704	xxx	xxx	xxx	xxx

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>Represents gross shipments of the mineral indicated by the industry group name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.<sup>2</sup>Represents expenditures during the year for both new and used plant and equipment.<sup>3</sup>Unless otherwise specified, includes minerals produced and used in the same manufacturing establishment in making manufactured products. The value of such minerals was estimated.<sup>4</sup>The cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.<sup>5</sup>Figures for primary products shipped or produced and used in other industries are included with those for primary products shipped in the specified industry.<sup>6</sup>Includes a small tonnage transferred to other establishments in the Sand and Gravel Industry for preparation.<sup>7</sup>Less than 500 tons.<sup>8</sup>Excludes the value of stone produced and used in the same manufacturing establishment in making manufactured products.<sup>9</sup>The quantity figure includes, but the value figure excludes stone produced and used in the same establishment in making manufactured products. For Nebraska, see also footnote 5.<sup>10</sup>Includes figures for the Kentucky operations of 4 service establishments primarily engaged in metal mining services in other States.<sup>11</sup>Includes figures for the Louisiana operations of one service establishment primarily engaged in metal mining services in other States.



Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
			Total	Mining only				Mines with preparation plants					Separately operated preparation plants
				Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
	United States:												
	Number of establishments....	7,231	7,119	1,942	85	1,501	356	5,107	132	4,404	571	70	112
	Number of employees.....	115,703	115,366	15,220	859	8,022	6,339	98,764	9,594	79,947	9,223	1,382	337
	Value added in mining.....\$1,000..	1,378,208	1,376,249	220,623	6,029	91,560	123,034	1,135,167	137,665	901,999	95,503	20,459	1,959
141	Dimension stone:												
	Number of establishments.....	335	325	316	1	315	...	9	...	9	...	...	10
	Number of employees.....	2,306	(D)	(D)	(D)	2,016	...	241	...	241	...	...	(D)
	Value added in mining...\$1,000..	13,076	(D)	(D)	(D)	11,820	...	1,296	...	1,296	...	...	(D)
142	Crushed and broken stone:												
	Number of establishments.....	1,957	1,943	130	4	124	2	1,789	61	1,710	18	24	14
	Number of employees.....	41,404	41,363	1,231	(D)	1,103	(D)	39,848	2,189	36,995	664	284	41
	Value added in mining...\$1,000..	445,788	445,846	13,912	(D)	12,478	(D)	427,033	21,241	399,169	6,623	4,901	( <sup>4</sup> )
144	Sand and gravel:												
	Number of establishments.....	3,703	3,679	927	...	597	330	2,739	...	2,212	527	13	24
	Number of employees.....	37,048	(D)	(D)	...	3,006	(D)	31,552	...	26,301	5,251	(D)	(D)
	Value added in mining...\$1,000..	434,468	(D)	(D)	...	44,550	(D)	361,061	...	305,231	55,830	(D)	(D)
145	Clay and related minerals:												
	Number of establishments.....	490	481	298	26	264	8	183	4	177	2	...	9
	Number of employees.....	8,773	8,750	1,496	395	989	112	7,254	(D)	7,179	(D)	...	23
	Value added in mining...\$1,000..	87,368	87,328	15,964	2,221	12,271	1,472	71,364	(D)	70,923	(D)	...	40
147	Chemical and fertilizer minerals:												
	Number of establishments.....	271	237	67	13	40	14	137	41	83	13	33	34
	Number of employees.....	20,556	20,394	4,245	(D)	282	(D)	(D)	6,344	5,876	(D)	(D)	162
	Value added in mining...\$1,000..	335,153	333,102	97,507	(D)	2,523	(D)	(D)	104,909	85,974	(D)	(D)	2,051
	Miscellaneous minerals, nec:												
	Number of establishments.....	475	454	204	41	161	2	250	26	213	11	...	21
	Number of employees.....	5,616	5,579	(D)	251	626	(D)	(D)	(D)	3,355	329	...	37
	Value added in mining...\$1,000..	62,355	62,402	(D)	1,991	7,918	(D)	(D)	(D)	39,406	1,806	...	( <sup>4</sup> )
	DIVISION AND STATES												
	New England:												
	Number of establishments.....	339	336	120	...	98	22	213	9	187	17	3	3
	Number of employees.....	53,295	(D)	417	...	376	41	(D)	166	(D)	224	27	(D)
	Value added in mining...\$1,000..	531,861	(D)	3,591	...	3,219	372	(D)	1,424	(D)	2,802	54	(D)
142	Crushed and broken stone:												
	Number of establishments.....	53	53	3	...	3	...	49	1	48	...	1	...
	Number of employees.....	1,094	1,094	(D)	...	(D)	...	(D)	(D)	1,044	...	(D)	...
	Value added in mining...\$1,000..	11,022	11,022	(D)	...	(D)	...	(D)	(D)	10,716	...	(D)	...
144	Sand and gravel:												
	Number of establishments.....	222	221	83	...	62	21	136	...	119	17	2	1
	Number of employees.....	1,402	(D)	(D)	...	253	(D)	1,102	...	878	224	(D)	(D)
	Value added in mining...\$1,000..	14,762	(D)	(D)	...	2,565	(D)	11,847	...	9,045	2,802	(D)	(D)
149	Miscellaneous minerals, nec:												
	Number of establishments.....	35	34	11	...	11	...	23	7	16	...	...	1
	Number of employees.....	499	(D)	19	...	19	...	(D)	(D)	341	...	...	(D)
	Value added in mining...\$1,000..	4,451	(D)	140	...	140	...	(D)	(D)	3,164	...	...	(D)
	New Hampshire:												
	Number of establishments.....	38	37	12	...	7	5	24	5	18	1	1	1
	Number of employees.....	234	(D)	53	...	36	17	(D)	71	101	(D)	(D)	(D)
	Value added in mining...\$1,000..	1,977	(D)	312	...	226	86	(D)	634	960	(D)	(D)	(D)
	Massachusetts:												
	Number of establishments.....	111	111	45	...	38	7	65	1	58	6	1	...
	Number of employees.....	61,285	997	231	...	222	9	(D)	(D)	642	(D)	(D)	...
	Value added in mining...\$1,000..	10,624	10,624	2,114	...	2,013	101	(D)	(D)	7,035	(D)	(D)	...

See footnotes at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
			Total	Mining only				Mines with preparation plants					Separately operated preparation plants
				Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
	DIVISION AND STATES—Continued												
	New England—Continued												
142	Massachusetts—Continued												
	Crushed and broken stone:												
	Number of establishments.....	20	20	1	...	1	...	19	1	18	...	...	
	Number of employees.....	400	400	(D)	...	(D)	...	(D)	(D)	(D)	...	...	
	Value added in mining.....\$1,000..	4,464	4,464	(D)	...	(D)	...	(D)	(D)	(D)	...	...	
144	Sand and gravel:												
	Number of establishments.....	88	88	42	...	35	7	45	...	39	6	1	
	Number of employees.....	589	589	216	...	207	9	(D)	...	271	(D)	(D)	
	Value added in mining.....\$1,000..	6,112	6,112	2,020	...	1,919	101	(D)	...	2,796	(D)	(D)	
	Rhode Island:												
	Number of establishments.....	18	18	5	...	3	2	13	...	12	1	...	
	Number of employees.....	147	147	10	...	(D)	(D)	137	...	(D)	(D)	...	
	Value added in mining.....\$1,000..	1,377	1,377	99	...	(D)	(D)	1,278	...	(D)	(D)	...	
	Connecticut:												
	Number of establishments.....	80	79	18	...	14	4	61	...	53	8	1	
	Number of employees.....	7859	(D)	(D)	...	34	(D)	799	...	702	97	(D)	
	Value added in mining.....\$1,000..	79,396	(D)	(D)	...	297	(D)	8,763	...	7,636	1,127	(D)	
142	Crushed and broken stone:												
	Number of establishments.....	17	17	...	...	...	...	17	...	17	...	...	
	Number of employees.....	397	397	...	...	...	...	397	...	397	...	...	
	Value added in mining.....\$1,000..	3,971	3,971	...	...	...	...	3,971	...	3,971	...	...	
144	Sand and gravel:												
	Number of establishments.....	51	50	9	...	5	4	41	...	33	8	1	
	Number of employees.....	423	(D)	(D)	...	10	(D)	402	...	305	97	(D)	
	Value added in mining.....\$1,000..	5,073	(D)	(D)	...	207	(D)	4,758	...	3,631	1,127	(D)	
	Middle Atlantic:												
	Number of establishments.....	784	773	216	11	171	34	552	9	511	32	5	
	Number of employees.....	614,370	(D)	(D)	143	693	(D)	12,593	(D)	(D)	(D)	270	
	Value added in mining...\$1,000..	165,658	(D)	(D)	870	6,662	(D)	152,423	(D)	(D)	(D)	4,308	
142	Crushed and broken stone:												
	Number of establishments.....	253	250	9	...	9	...	240	3	235	2	1	
	Number of employees.....	67,561	7,472	(D)	...	(D)	...	(D)	(D)	7,124	(D)	(D)	
	Value added in mining.....\$1,000..	89,266	89,266	(D)	...	(D)	...	(D)	(D)	86,544	(D)	(D)	
144	Sand and gravel:												
	Number of establishments.....	381	378	108	...	76	32	267	...	237	30	3	
	Number of employees.....	64,257	4,181	(D)	...	231	(D)	3,677	...	3,003	674	(D)	
	Value added in mining.....\$1,000..	50,046	50,062	(D)	...	2,657	(D)	42,417	...	34,840	7,577	(D)	
	New York:												
	Number of establishments.....	296	292	82	...	61	21	208	5	191	12	2	
	Number of employees.....	65,186	(D)	(D)	...	149	(D)	(D)	839	(D)	(D)	(D)	
	Value added in mining.....\$1,000..	75,878	(D)	(D)	...	1,753	(D)	(D)	18,163	(D)	(D)	(D)	
142	Crushed and broken stone:												
	Number of establishments.....	63	61	2	...	2	...	58	...	58	...	1	
	Number of employees.....	2,068	(D)	(D)	...	(D)	...	2,018	...	2,018	...	(D)	
	Value added in mining.....\$1,000..	30,195	(D)	(D)	...	(D)	...	29,813	...	29,813	...	(D)	

See footnotes at end of table.



Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments									Non-producing establishments	
			Total	Mining only				Mines with preparation plants					Separately operated preparation plants
				Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
	DIVISION AND STATES—Continued												
	Middle Atlantic—Continued												
	New York—Continued												
	Sand and gravel:												
	Number of establishments.....	203	202	64	...	43	21	137	...	125	12	1	
	Number of employees.....	1,753	(D)	(D)	...	69	(D)	(D)	...	1,296	(D)	(D)	
	Value added in mining.....\$1,000..	25,375	(D)	(D)	...	1,160	(D)	(D)	...	18,057	(D)	(D)	
	New Jersey:												
	Number of establishments.....	130	130	32	...	25	7	96	...	89	7	2	
	Number of employees.....	2,719	2,719	176	...	169	7	(D)	...	2,390	(D)	(D)	
	Value added in mining.....\$1,000..	28,971	28,971	1,737	...	1,610	127	(D)	...	25,240	(D)	(D)	
142	Crushed and broken stone:												
	Number of establishments.....	25	25	...	...	...	...	25	...	25	...	...	
	Number of employees.....	1,138	1,138	...	...	...	...	1,138	...	1,138	...	...	
	Value added in mining.....\$1,000..	14,747	14,747	...	...	...	...	14,747	...	14,747	...	...	
144	Sand and gravel:												
	Number of establishments.....	89	89	28	...	21	7	59	...	52	7	2	
	Number of employees.....	1,174	1,174	150	...	143	7	(D)	...	871	(D)	(D)	
	Value added in mining.....\$1,000..	12,889	12,889	1,549	...	1,422	127	(D)	...	9,349	(D)	(D)	
	Pennsylvania:												
	Number of establishments.....	358	351	102	11	85	6	248	4	231	13	1	
	Number of employees.....	6,465	6,122	539	143	375	21	(D)	(D)	4,943	499	(D)	
	Value added in mining.....\$1,000..	60,809	60,822	4,819	870	3,299	650	(D)	(D)	50,336	4,727	(D)	
142	Crushed and broken stone:												
	Number of establishments.....	165	164	7	...	7	...	157	3	152	2	...	
	Number of employees.....	64,355	(D)	81	...	81	...	(D)	(D)	3,968	(D)	...	
	Value added in mining.....\$1,000..	44,324	(D)	674	...	674	...	(D)	(D)	41,984	(D)	...	
144	Sand and gravel:												
	Number of establishments.....	89	87	16	...	12	4	71	...	60	11	...	
	Number of employees.....	61,330	(D)	36	...	19	17	(D)	...	836	(D)	...	
	Value added in mining.....\$1,000..	11,782	(D)	666	...	75	591	(D)	...	7,434	(D)	...	
	East North Central:												
	Number of establishments.....	1,685	1,661	317	15	224	78	1,324	49	1,177	98	20	
	Number of employees.....	23,021	22,975	1,944	80	1,672	192	20,770	(D)	17,544	(D)	231	
	Value added in mining...\$1,000..	258,378	258,464	20,168	1,031	16,135	3,002	235,381	(D)	198,908	(D)	2,915	
142	Crushed and broken stone:												
	Number of establishments.....	472	469	10	4	6	...	450	6	444	...	9	
	Number of employees.....	10,066	10,052	43	(D)	(D)	...	9,957	(D)	(D)	...	52	
	Value added in mining.....\$1,000..	114,249	114,275	298	(D)	(D)	...	113,366	(D)	(D)	...	611	
144	Sand and gravel:												
	Number of establishments.....	1,043	1,032	205	...	132	73	827	...	729	98	...	
	Number of employees.....	9,700	(D)	(D)	...	(D)	161	(D)	...	(D)	(D)	...	
	Value added in mining.....\$1,000..	116,602	(D)	(D)	...	(D)	2,809	(D)	...	(D)	(D)	...	
145	Clay and related minerals:												
	Number of establishments.....	53	53	35	5	29	1	18	...	18	...	...	
	Number of employees.....	542	542	148	(D)	127	(D)	394	...	394	...	...	
	Value added in mining.....\$1,000..	5,712	5,712	1,617	(D)	1,349	(D)	4,095	...	4,095	...	...	

See footnotes at end of table.

Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of estab- lish- ments, total	Producing establishments									Nonpro- ducing estab- lish- ments	
			Total	Mining only				Mines with preparation plants					Seps- ately oper- ated prepa- ration plants
				Total	Under- ground mines	Open- pit mines <sup>1</sup>	Combina- tion methods, well op- erations, and other methods <sup>2</sup>	Total	Under- ground mines	Open- pit mines <sup>1</sup>	Combina- tion methods and other methods <sup>3</sup>		
	DIVISION AND STATES—Continued												
149	East North Central—Continued												
	Miscellaneous minerals, nec:												
	Number of establish- ments.....	30	30	4	...	4	...	26	...	26	...	...	
	Number of employees.....	375	375	13	...	13	...	362	...	362	...	...	
	Value added in mining.....\$1,000..	4,923	4,923	86	...	86	...	4,837	...	4,837	...	...	
142	Ohio:												
	Crushed and broken stone:												
	Number of establish- ments.....	110	110	1	...	1	...	106	2	104	...	3	
	Number of employees.....	3,485	3,485	(D)	...	(D)	...	3,453	(D)	(D)	...	(D)	
	Value added in mining.....\$1,000..	30,323	30,323	(D)	...	(D)	...	29,974	(D)	(D)	...	(D)	
144	Sand and gravel:												
	Number of establish- ments.....	289	282	45	...	32	13	237	...	209	28	7	
	Number of employees.....	2,604	(D)	(D)	...	268	(D)	2,266	...	1,975	291	(D)	
	Value added in mining.....\$1,000..	31,576	(D)	(D)	...	2,251	(D)	28,732	...	25,023	3,709	(D)	
145	Clay and related minerals:												
	Number of establish- ments.....	30	30	21	4	16	1	9	...	9	...	...	
	Number of employees.....	289	289	78	13	(D)	(D)	211	...	211	...	...	
	Value added in mining.....\$1,000..	4,020	4,020	1,087	164	(D)	(D)	2,933	...	2,933	...	...	
	Indiana:												
	Number of establish- ments.....	275	274	88	4	60	24	184	1	165	18	2	
	Number of employees.....	2,998	(D)	(D)	(D)	533	27	(D)	(D)	2,088	302	(D)	
	Value added in mining.....\$1,000..	29,664	(D)	(D)	(D)	4,103	574	(D)	(D)	22,304	2,211	(D)	
142	Crushed and broken stone:												
	Number of establish- ments.....	67	67	6	3	3	...	59	1	58	...	2	
	Number of employees.....	1,169	1,196	(D)	(D)	31	...	(D)	(D)	1,098	...	(D)	
	Value added in mining.....\$1,000..	12,989	12,989	(D)	(D)	268	...	(D)	(D)	12,301	...	(D)	
144	Sand and gravel:												
	Number of establish- ments.....	178	178	60	...	36	24	118	...	100	18	...	
	Number of employees.....	1,335	1,335	94	...	67	27	1,241	...	939	302	...	
	Value added in mining.....\$1,000..	12,917	12,917	1,067	...	493	574	11,850	...	9,639	2,211	...	
142	Illinois:												
	Crushed and broken stone:												
	Number of establish- ments.....	153	152	1	1	...	...	148	2	146	...	3	
	Number of employees.....	2,669	(D)	(D)	(D)	...	...	(D)	(D)	2,344	...	(D)	
	Value added in mining.....\$1,000..	41,725	(D)	(D)	(D)	...	...	(D)	(D)	37,413	...	(D)	
144	Sand and gravel:												
	Number of establish- ments.....	171	171	32	...	19	13	139	...	112	27	...	
	Number of employees.....	2,370	2,370	109	...	54	55	2,261	...	1,918	343	...	
	Value added in mining.....\$1,000..	32,745	32,745	1,798	...	889	909	30,947	...	27,194	3,753	...	
	Michigan:												
	Number of establish- ments.....	304	300	80	...	67	13	220	1	204	15	4	
	Number of employees.....	54,307	(D)	(D)	...	(D)	54	3,975	(D)	(D)	233	(D)	
	Value added in mining.....\$1,000..	555,240	(D)	(D)	...	(D)	731	(D)	(D)	(D)	1,573	(D)	

See footnotes at end of table.



Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of estab- lish- ments, total	Producing establishments									Nonpro- ducing estab- lish- ments	
			Total	Mining only				Mines with preparation plants					Sepa- rately oper- ated prepa- ration plants
				Total	Under- ground mines	Open- pit mines <sup>1</sup>	Combina- tion methods, well oper- ations, and other methods <sup>2</sup>	Total	Under- ground mines	Open- pit mines <sup>1</sup>	Combina- tion methods and other methods <sup>3</sup>		
E	DIVISION AND STATES—Continued												
	East North Central—Continued												
142	Michigan—Continued												
	Crushed and broken stone:												
	Number of establish- ments.....	43	43	24	...	24	...	19	...	19	...	...	
	Number of employees.....	1,615	1,615	75	...	75	...	1,540	...	1,540	...	...	
	Value added in mining.....\$1,000..	18,444	18,444	830	...	830	...	17,614	...	17,614	...	...	
144	Sand and gravel:												
	Number of establish- ments.....	243	239	68	...	35	13	171	...	156	15	4	
	Number of employees.....	2,102	(D)	218	...	164	54	1,884	...	1,651	233	(D)	
	Value added in mining.....\$1,000..	26,024	(D)	3,347	...	2,616	731	22,677	...	21,104	1,573	(D)	
	Wisconsin:												
	Number of establish- ments.....	282	278	40	...	30	10	233	1	220	12	4	
	Number of employees.....	<sup>5</sup> 2,517	(D)	250	...	228	22	2,153	(D)	1,963	(D)	(D)	
	Value added in mining.....\$1,000..	<sup>5</sup> 24,749	(D)	2,658	...	2,280	378	21,393	(D)	19,205	(D)	(D)	
142	Crushed and broken stone:												
	Number of establish- ments.....	99	97	2	...	2	...	94	1	93	...	2	
	Number of employees.....	1,128	(D)	(D)	...	(D)	...	(D)	(D)	1,087	...	(D)	
	Value added in mining.....\$1,000..	10,768	(D)	(D)	...	(D)	...	(D)	(D)	10,440	...	(D)	
144	Sand and gravel:												
	Number of establish- ments.....	162	162	20	...	10	10	142	...	130	12	...	
	Number of employees.....	1,289	1,289	(D)	...	111	(D)	(D)	...	(D)	(D)	...	
	Value added in mining.....\$1,000..	13,340	13,340	(D)	...	1,401	(D)	(D)	...	(D)	(D)	...	
	West North Central:												
	Number of establishments.....	1,166	1,152	297	2	226	69	853	14	719	120	14	
	Number of employees.....	11,251	11,227	1,427	(D)	1,325	(D)	(D)	487	8,090	(D)	24	
	Value added in mining.....\$1,000..	117,490	117,535	18,585	(D)	17,039	(D)	(D)	5,272	82,388	(D)	( <sup>4</sup> )	
142	Crushed and broken stone:												
	Number of establish- ments.....	374	371	39	...	39	...	330	11	312	7	3	
	Number of employees.....	5,462	5,450	(D)	...	(D)	...	5,041	(D)	4,517	(D)	12	
	Value added in mining.....\$1,000..	57,426	57,463	(D)	...	(D)	...	52,975	(D)	47,290	(D)	( <sup>4</sup> )	
144	Sand and gravel:												
	Number of establish- ments.....	636	634	152	...	84	68	482	...	369	113	2	
	Number of employees.....	4,456	(D)	(D)	...	425	(D)	3,933	...	2,928	1,005	(D)	
	Value added in mining.....\$1,000..	44,747	(D)	(D)	...	7,490	(D)	35,826	...	26,667	9,159	(D)	
	Minnesota:												
	Number of establish- ments.....	198	197	58	...	44	14	133	...	126	7	1	
	Number of employees.....	1,954	(D)	395	...	385	10	(D)	...	1,375	(D)	(D)	
	Value added in mining.....\$1,000..	19,216	(D)	6,456	...	6,287	169	(D)	...	11,013	(D)	(D)	
142	Crushed and broken stone:												
	Number of establish- ments.....	29	29	3	...	3	...	26	...	26	...	...	
	Number of employees.....	542	542	11	...	11	...	531	...	531	...	...	
	Value added in mining.....\$1,000..	4,354	4,354	169	...	169	...	4,185	...	4,185	...	...	

See footnotes at end of table.

Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments								Separately operated preparation plants	Nonproducing establishments	
			Total	Mining only				Mines with preparation plants					
				Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>			Combination methods and other methods <sup>3</sup>
144	DIVISION AND STATES—Continued												
	West North Central—Continued												
	Minnesota—Continued												
	Sand and gravel:												
	Number of establishments.....	151	151	41	...	27	14	104	...	97	7	6	
	Number of employees.....	1,282	1,282	300	...	290	10	(D)	...	802	(D)	(D)	
	Value added in mining.....\$1,000..	14,256	14,256	5,885	...	5,716	169	(D)	...	6,624	(D)	(D)	
	Iowa:												
	Number of establishments.....	231	228	42	...	27	15	184	1	173	10	2	
	Number of employees.....	2,489	2,487	(D)	...	250	(D)	2,195	(D)	2,098	(D)	(D)	
	Value added in mining.....\$1,000..	29,128	29,130	(D)	...	2,982	(D)	25,348	(D)	24,431	(D)	(D)	
142	Crushed and broken stone:												
	Number of establishments.....	112	111	9	...	9	...	102	1	100	1	...	
	Number of employees.....	1,731	(D)	173	...	173	...	(D)	(D)	1,517	(D)	(D)	
	Value added in mining.....\$1,000..	20,383	(D)	2,082	...	2,082	...	(D)	(D)	18,041	(D)	(D)	
144	Sand and gravel:												
	Number of establishments.....	111	109	29	...	14	15	78	...	69	9	2	
	Number of employees.....	727	(D)	(D)	...	62	(D)	(D)	...	565	(D)	(D)	
	Value added in mining.....\$1,000..	8,546	(D)	(D)	...	778	(D)	(D)	...	6,313	(D)	(D)	
142	Missouri:												
	Crushed and broken stone:												
	Number of establishments.....	146	144	17	...	17	...	127	6	115	6	...	
	Number of employees.....	1,966	(D)	168	...	168	...	(D)	178	(D)	186	(D)	
	Value added in mining.....\$1,000..	18,725	(D)	1,453	...	1,453	...	(D)	2,271	(D)	1,808	(D)	
144	Sand and gravel:												
	Number of establishments.....	84	84	18	...	9	9	64	...	27	37	2	
	Number of employees.....	788	788	30	...	16	14	(D)	...	410	(D)	(D)	
	Value added in mining.....\$1,000..	6,307	6,307	287	...	153	134	(D)	...	3,173	(D)	(D)	
145	Clay and related minerals:												
	Number of establishments.....	50	50	48	...	48	...	2	...	2	...	...	
	Number of employees.....	361	361	(D)	...	(D)	...	(D)	...	(D)	...	...	
	Value added in mining.....\$1,000..	4,161	4,161	(D)	...	(D)	...	(D)	...	(D)	...	...	
	South Dakota:												
	Number of establishments.....	80	79	35	2	29	4	43	1	39	3	1	
	Number of employees.....	583	(D)	(D)	(D)	67	3	507	(D)	(D)	(D)	(D)	
	Value added in mining.....\$1,000..	57,108	(D)	(D)	(D)	817	42	6,107	(D)	(D)	(D)	(D)	
142	Nebraska:												
	Crushed and broken stone:												
	Number of establishments.....	20	20	5	...	5	...	15	...	15	...	...	
	Number of employees.....	280	280	(D)	...	(D)	...	(D)	...	(D)	...	...	
	Value added in mining.....\$1,000..	3,327	3,327	(D)	...	(D)	...	(D)	...	(D)	...	...	
144	Sand and gravel:												
	Number of establishments.....	122	122	20	...	9	11	102	...	75	27	...	
	Number of employees.....	705	705	39	...	21	18	666	...	492	174	...	
	Value added in mining.....\$1,000..	5,945	5,945	526	...	295	231	5,419	...	4,109	1,310	...	

See footnotes at end of table.



Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of estab- lish- ments, total	Producing establishments									Nonpro- ducing estab- lish- ments	
			Total	Mining only				Mines with preparation plants					Sepsa- rately operat- ed prepara- tion plants
				Total	Under- ground mines	Open- pit mines <sup>1</sup>	Combina- tion methods, well oper- ations, and other methods <sup>2</sup>	Total	Under- ground mines	Open- pit mines <sup>1</sup>	Combina- tion methods and other methods <sup>3</sup>		
	DIVISION AND STATES—Continued												
	West North Central—Continued												
	Kansas:												
	Number of establish- ments .....	167	163	30	...	19	11	131	6	96	29	2	4
	Number of employees.....	1,531	(D)	74	...	51	23	(D)	(D)	894	260	(D)	(D)
142	Value added in mining.....\$1,000..	16,019	(D)	1,007	...	686	321	(D)	(D)	9,206	2,746	(D)	(D)
	Crushed and broken stone:												
	Number of establish- ments.....	58	58	4	...	4	...	52	4	48	...	2	...
	Number of employees.....	796	796	26	...	26	...	(D)	(D)	643	...	(D)	...
	Value added in mining.....\$1,000..	8,562	8,562	363	...	363	...	(D)	(D)	6,755	...	(D)	...
144	Sand and gravel:												
	Number of establish- ments.....	96	96	23	...	12	11	73	...	44	29	...	...
	Number of employees.....	512	512	35	...	12	23	477	...	217	260	...	...
	Value added in mining.....\$1,000..	5,306	5,306	505	...	184	321	4,801	...	2,055	2,746	...	...
	South Atlantic:												
	Number of establishments.....	884	870	269	19	216	34	589	13	514	62	12	14
	Number of employees.....	21,996	21,968	1,588	133	1,359	96	19,500	566	17,793	1,141	880	28
142	Value added in mining...\$1,000..	228,349	228,415	14,028	603	12,412	1,013	201,959	5,365	184,286	12,308	12,428	(4)
	Crushed and broken stone:												
	Number of establish- ments.....	281	281	12	1	11	...	264	3	259	2	5	...
	Number of employees.....	8,180	8,180	(D)	(D)	338	...	7,695	(D)	7,230	(D)	(D)	...
	Value added in mining.....\$1,000..	84,591	84,591	(D)	(D)	4,064	...	76,775	(D)	71,168	(D)	(D)	...
144	Sand and gravel:												
	Number of establish- ments.....	304	302	102	...	68	34	200	...	140	60	...	2
	Number of employees.....	4,193	(D)	446	...	350	96	(D)	...	2,769	(D)	...	(D)
	Value added in mining.....\$1,000..	43,522	(D)	3,874	...	2,861	1,013	(D)	...	29,158	(D)	...	(D)
145	Clay and related minerals:												
	Number of establish- ments.....	86	84	37	2	35	...	47	...	47	...	...	2
	Number of employees.....	4,159	(D)	(D)	(D)	141	...	4,003	...	4,003	...	...	(D)
	Value added in mining.....\$1,000..	37,682	(D)	(D)	(D)	2,185	...	35,399	...	35,399	...	...	(D)
	Delaware and Maryland:												
	Number of establishments.....	87	87	24	...	23	1	62	...	54	8	1	...
	Number of employees.....	1,728	1,728	(D)	...	117	(D)	(D)	...	1,324	(D)	(D)	...
142	Value added in mining...\$1,000..	18,314	18,314	(D)	...	1,034	(D)	(D)	...	14,806	(D)	(D)	...
	Crushed and broken stone:												
	Number of establish- ments.....	23	23	1	...	1	...	22	...	22	...	...	...
	Number of employees.....	815	815	(D)	...	(D)	...	(D)	...	(D)	...	...	...
	Value added in mining.....\$1,000..	9,134	9,134	(D)	...	(D)	...	(D)	...	(D)	...	...	...

See footnotes at end of table.

## MINERAL INDUSTRIES—INDUSTRY STATISTICS

Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of estab- lish- ments, total	Producing establishments								Nonpro- ducing estab- lish- ments		
			Total	Mining only				Mines with preparation plants				Sepa- rately oper- ated prepa- ration plants	
				Total	Under- ground mines	Open- pit mines <sup>1</sup>	Combina- tion methods, well op- erations, and other methods <sup>2</sup>	Total	Under- ground mines	Open- pit mines <sup>1</sup>			Combina- tion methods and other methods <sup>3</sup>
	DIVISION AND STATES—Continued												
	South Atlantic—Continued												
	Delaware and Maryland—Continued												
144	Sand and gravel:												
	Number of establish- ments.....	52	52	16	...	15	1	36	...	28	8	...	
	Number of employees.....	808	808	(D)	...	65	(D)	(D)	...	469	(D)	...	
	Value added in mining.....\$1,000..	8,208	8,208	(D)	...	612	(D)	(D)	...	5,532	(D)	...	
	Virginia:												
	Number of establish- ments.....	135	134	28	1	25	2	105	1	95	9	1	
	Number of employees.....	3,520	(D)	324	(D)	(D)	(D)	(D)	(D)	2,876	163	(D)	
	Value added in mining.....\$1,000..	29,726	(D)	2,764	(D)	(D)	(D)	(D)	(D)	24,382	1,506	(D)	
142	Crushed and broken stone:												
	Number of establish- ments.....	71	71	6	1	5	...	64	...	64	...	1	
	Number of employees.....	1,839	1,839	(D)	(D)	(D)	...	1,692	...	1,692	...	(D)	
	Value added in mining.....\$1,000..	15,526	15,526	(D)	(D)	(D)	...	14,192	...	14,192	...	(D)	
144	Sand and gravel:												
	Number of establish- ments.....	46	46	14	...	12	2	32	...	23	9	...	
	Number of employees.....	848	848	146	...	(D)	(D)	702	...	539	163	...	
	Value added in mining.....\$1,000..	9,034	9,034	1,194	...	(D)	(D)	7,840	...	6,334	1,506	...	
	West Virginia:												
142	Crushed and broken stone:												
	Number of establish- ments.....	30	30	1	...	1	...	29	1	26	2	...	
	Number of employees.....	683	683	(D)	...	(D)	...	681	(D)	483	(D)	...	
	Value added in mining.....\$1,000..	6,790	6,790	(D)	...	(D)	...	6,784	(D)	4,778	(D)	...	
144	Sand and gravel:												
	Number of establish- ments.....	25	25	2	...	2	...	23	...	11	12	...	
	Number of employees.....	620	620	(D)	...	(D)	...	(D)	...	(D)	182	...	
	Value added in mining.....\$1,000..	8,312	8,312	(D)	...	(D)	...	(D)	...	(D)	3,271	...	
	North Carolina:												
142	Crushed and broken stone:												
	Number of establish- ments.....	40	40	1	...	1	...	39	...	39	...	...	
	Number of employees.....	1,120	1,120	(D)	...	(D)	...	(D)	...	(D)	...	...	
	Value added in mining.....\$1,000..	10,394	10,394	(D)	...	(D)	...	(D)	...	(D)	...	...	
144	Sand and gravel:												
	Number of establish- ments.....	44	44	21	...	12	9	23	...	17	6	...	
	Number of employees.....	486	486	78	...	45	33	408	...	373	35	...	
	Value added in mining.....\$1,000..	4,324	4,324	667	...	415	252	3,657	...	3,479	178	...	
145	Clay and related minerals:												
	Number of establish- ments.....	32	32	24	2	22	...	7	...	7	...	1	
	Number of employees.....	531	531	(D)	(D)	46	...	447	...	447	...	(D)	
	Value added in mining.....\$1,000..	4,098	4,098	(D)	(D)	272	...	3,671	...	3,671	...	(D)	
	South Carolina:												
142	Crushed and broken stone:												
	Number of establish- ments.....	10	10	...	...	...	...	10	...	10	...	...	
	Number of employees.....	510	510	...	...	...	...	510	...	510	...	...	
	Value added in mining.....\$1,000..	4,176	4,176	...	...	...	...	4,176	...	4,176	...	...	

See footnotes at end of table.



Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
			Total	Mining only				Mines with preparation plants					Separately operated preparation plants
				Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
	DIVISION AND STATES—Continued												
	South Atlantic—Continued												
	South Carolina—Continued												
144	Sand and gravel:												
	Number of establishments.....	32	30	10	...	5	5	20	...	12	8	...	
	Number of employees.....	304	(D)	(D)	...	29	(D)	261	...	163	98	...	
	Value added in mining.....\$1,000..	3,246	(D)	(D)	...	210	(D)	2,867	...	1,473	1,394	...	
	Georgia:												
	Number of establishments.....	143	140	56	2	47	7	84	4	72	8	...	
	Number of employees.....	55,093	55,089	412	(D)	(D)	19	4,677	285	4,308	84	...	
	Value added in mining.....\$1,000..	551,162	551,257	3,162	(D)	(D)	204	48,095	3,681	43,685	729	...	
142	Crushed and broken stone:												
	Number of establishments.....	31	31	1	...	1	...	30	2	28	...	...	
	Number of employees.....	1,424	1,424	(D)	...	(D)	...	(D)	(D)	1,144	...	...	
	Value added in mining.....\$1,000..	17,898	17,898	(D)	...	(D)	...	(D)	(D)	14,204	...	...	
144	Sand and gravel:												
	Number of establishments.....	42	42	17	...	10	7	25	...	17	8	...	
	Number of employees.....	463	463	53	...	34	19	410	...	326	84	...	
	Value added in mining.....\$1,000..	3,776	3,776	390	...	186	204	3,386	...	2,657	729	...	
145	Clay and related minerals:												
	Number of establishments.....	29	28	7	...	7	...	21	...	21	...	...	
	Number of employees.....	2,672	(D)	(D)	...	(D)	...	2,631	...	2,631	...	...	
	Value added in mining.....\$1,000..	26,149	(D)	(D)	...	(D)	...	24,919	...	24,919	...	...	
142	Florida:												
	Crushed and broken stone:												
	Number of establishments.....	76	76	2	...	2	...	70	...	70	...	...	
	Number of employees.....	1,789	1,789	(D)	...	(D)	...	1,669	...	1,669	...	...	
	Value added in mining.....\$1,000..	20,673	20,673	(D)	...	(D)	...	16,500	...	16,500	...	...	
144	Sand and gravel:												
	Number of establishments.....	63	63	22	...	12	10	41	...	32	9	...	
	Number of employees.....	664	664	103	...	40	63	561	...	421	140	...	
	Value added in mining.....\$1,000..	6,622	6,622	954	...	406	548	5,668	...	4,277	1,391	...	
	East South Central:												
	Number of establishments.....	496	492	137	10	106	21	350	30	277	43	...	
	Number of employees.....	8,408	(D)	1,390	253	1,071	66	(D)	(D)	5,438	(D)	...	
	Value added in mining.....\$1,000..	77,478	(D)	9,912	1,412	7,903	597	(D)	(D)	54,939	(D)	...	
142	Crushed and broken stone:												
	Number of establishments.....	208	208	18	2	16	...	189	25	164	...	...	
	Number of employees.....	4,043	4,043	(D)	(D)	329	...	3,672	593	3,079	...	...	
	Value added in mining.....\$1,000..	37,868	37,868	(D)	(D)	2,636	...	34,916	4,270	30,646	...	...	
144	Sand and gravel:												
	Number of establishments.....	155	152	42	...	21	21	110	...	67	43	...	
	Number of employees.....	2,030	2,023	177	...	111	66	1,844	...	1,043	801	...	
	Value added in mining.....\$1,000..	17,848	17,855	1,712	...	1,115	597	15,909	...	9,342	6,567	...	
145	Clay and related minerals:												
	Number of establishments.....	56	56	29	6	23	...	27	1	26	...	...	
	Number of employees.....	968	968	345	220	125	...	623	(D)	(D)	...	...	
	Value added in mining.....\$1,000..	9,400	9,400	2,250	1,059	1,191	...	7,150	(D)	(D)	...	...	

See footnotes at end of table.

Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
			Total	Mining only				Mines with preparation plants					Separately operated preparation plants
				Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
	DIVISION AND STATES—Continued												
	East South Central—Continued												
	Kentucky:												
	Number of establishments.....	161	158	37	9	24	4	120	22	86	12	1	3
	Number of employees.....	2,646	2,642	371	230	127	14	<sup>8</sup> 2,271	538	1,458	<sup>8</sup> 275	( <sup>8</sup> )	4
	Value added in mining.....\$1,000..	22,910	22,960	2,640	1,340	1,197	103	<sup>8</sup> 20,320	3,931	14,133	<sup>8</sup> 2,256	( <sup>8</sup> )	( <sup>4</sup> )
142	Crushed and broken stone:												
	Number of establishments.....	95	95	8	2	6	...	87	18	69	...	...	...
	Number of employees.....	1,801	1,801	98	(D)	(D)	...	1,703	447	1,256	...	...	...
	Value added in mining.....\$1,000..	15,478	15,478	784	(D)	(D)	...	14,674	3,172	11,522	...	...	...
	Tennessee:												
	Number of establishments.....	199	198	58	...	53	5	136	7	118	11	4	1
	Number of employees.....	<sup>5</sup> 3,547	(D)	(D)	...	643	(D)	2,816	146	2,471	199	(D)	(D)
	Value added in mining.....\$1,000..	<sup>5</sup> 33,743	(D)	(D)	...	3,956	(D)	28,776	1,098	25,870	1,808	(D)	(D)
142	Crushed and broken stone:												
	Number of establishments.....	85	85	7	...	7	...	77	7	70	...	1	...
	Number of employees.....	1,436	1,436	(D)	...	(D)	...	1,329	146	1,183	...	(D)	...
	Value added in mining.....\$1,000..	14,246	14,246	(D)	...	(D)	...	13,521	1,098	12,423	...	(D)	...
144	Sand and gravel:												
	Number of establishments.....	45	44	11	...	6	5	33	...	22	11	...	1
	Number of employees.....	611	(D)	(D)	...	39	(D)	555	...	356	199	...	(D)
	Value added in mining.....\$1,000..	5,204	(D)	(D)	...	332	(D)	4,768	...	2,960	1,808	...	(D)
	Alabama:												
	Number of establishments.....	80	80	24	1	19	4	56	1	45	10	...	...
	Number of employees.....	<sup>5</sup> 1,415	<sup>5</sup> 1,415	(D)	(D)	222	16	(D)	(D)	992	(D)	...	...
	Value added in mining.....\$1,000..	<sup>5</sup> 12,514	<sup>5</sup> 12,514	(D)	(D)	1,843	106	(D)	(D)	9,515	(D)	...	...
	Mississippi:												
	Number of establishments.....	56	56	18	...	10	8	37	...	27	10	1	...
	Number of employees.....	<sup>5</sup> 853	<sup>5</sup> 853	103	...	79	24	(D)	...	517	(D)	(D)	...
	Value added in mining.....\$1,000..	<sup>5</sup> 8,661	<sup>5</sup> 8,661	1,184	...	907	277	(D)	...	5,421	(D)	(D)	...
144	Sand and gravel:												
	Number of establishments.....	45	45	15	...	7	8	29	...	19	10	1	...
	Number of employees.....	666	666	76	...	52	24	(D)	...	378	(D)	(D)	...
	Value added in mining.....\$1,000..	5,942	5,942	774	...	497	277	(D)	...	3,229	(D)	(D)	...
	West South Central:												
	Number of establishments.....	558	547	153	...	108	45	379	6	297	76	15	11
	Number of employees.....	12,941	12,838	(D)	...	559	(D)	8,750	(D)	6,532	1,637	(D)	103
	Value added in mining....\$1,000..	186,233	183,876	(D)	...	4,693	(D)	83,465	(D)	59,209	17,177	(D)	2,357
142	Crushed and broken stone:												
	Number of establishments.....	82	79	8	...	8	...	68	2	66	...	3	3
	Number of employees.....	2,372	(D)	75	...	75	...	(D)	(D)	2,203	...	15	(D)
	Value added in mining.....\$1,000..	19,750	(D)	463	...	463	...	(D)	(D)	18,330	...	35	(D)
144	Sand and gravel:												
	Number of establishments.....	354	353	95	...	62	33	258	...	185	73	...	1
	Number of employees.....	4,414	(D)	338	...	253	85	(D)	...	3,212	(D)	...	(D)
	Value added in mining.....\$1,000..	43,376	(D)	3,340	...	2,325	1,015	(D)	...	29,937	(D)	...	(D)

See footnotes at end of table.



Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
			Total	Mining only				Mines with preparation plants					Separately operated preparation plants
				Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
145	DIVISION AND STATES—Continued												
	West South Central—Continued												
	Clay and related minerals:												
	Number of establishments.....	28	28	7	...	7	...	21	...	21	...	...	
	Number of employees.....	540	540	25	...	25	...	515	...	515	...	...	
	Value added in mining.....\$1,000..	4,024	4,024	277	...	277	...	3,747	...	3,747	...	...	
147	Chemical and fertilizer minerals:												
	Number of establishments.....	41	36	12	...	...	12	12	4	5	3	12	
	Number of employees.....	4,745	(D)	(D)	...	...	(D)	1,241	522	(D)	(D)	140	
	Value added in mining.....\$1,000..	114,252	(D)	(D)	...	...	(D)	17,645	6,537	(D)	(D)	2,662	
149	Miscellaneous minerals, nec:												
	Number of establishments.....	26	25	6	...	6	...	19	...	19	...	1	
	Number of employees.....	419	(D)	(D)	...	(D)	...	341	...	341	...	(D)	
	Value added in mining.....\$1,000..	3,833	(D)	(D)	...	(D)	...	3,178	...	3,178	...	(D)	
	Arkansas:												
	Number of establishments.....	78	77	28	...	22	6	45	3	37	5	4	
	Number of employees.....	51,347	(D)	133	...	(D)	(D)	(D)	(D)	887	72	(D)	
	Value added in mining.....\$1,000..	511,499	(D)	842	...	(D)	(D)	(D)	(D)	7,504	505	(D)	
147	Chemical and fertilizer minerals:												
	Number of establishments.....	4	4	...	...	...	...	2	1	1	...	2	
	Number of employees.....	366	366	...	...	...	...	(D)	(D)	(D)	...	(D)	
	Value added in mining.....\$1,000..	4,629	4,629	...	...	...	...	(D)	(D)	(D)	...	(D)	
	Louisiana:												
	Number of establishments.....	95	92	23	...	14	9	68	2	44	22	1	
	Number of employees.....	3,738	3,674	(D)	...	(D)	(D)	1,944	(D)	1,004	(D)	(D)	
	Value added in mining.....\$1,000..	769,570	(D)	(D)	...	(D)	(D)	23,006	(D)	9,545	(D)	(D)	
144	Sand and gravel:												
	Number of establishments.....	77	76	15	...	11	4	61	...	41	20	...	
	Number of employees.....	1,223	(D)	108	...	93	15	(D)	...	923	(D)	...	
	Value added in mining.....\$1,000..	11,684	(D)	860	...	570	290	(D)	...	8,896	(D)	...	
	Oklahoma:												
	Number of establishments.....	96	92	19	...	17	2	71	...	48	23	2	
	Number of employees.....	1,228	1,204	72	...	72	...	(D)	...	871	(D)	(D)	
	Value added in mining.....\$1,000..	9,717	9,347	701	...	(D)	(D)	(D)	...	6,553	(D)	370	
142	Crushed and broken stone:												
	Number of establishments.....	29	26	2	...	2	...	23	...	23	...	1	
	Number of employees.....	780	(D)	(D)	...	(D)	...	702	...	702	...	(D)	
	Value added in mining.....\$1,000..	5,362	(D)	(D)	...	(D)	...	4,965	...	4,965	...	(D)	
144	Sand and gravel:												
	Number of establishments.....	52	52	10	...	8	2	42	...	19	23	...	
	Number of employees.....	333	333	35	...	(D)	(D)	298	...	(D)	(D)	...	
	Value added in mining.....\$1,000..	3,278	3,278	274	...	(D)	(D)	3,004	...	(D)	(D)	...	

See footnotes at end of table.

Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
			Total	Mining only				Mines with preparation plants					Separately operated preparation plants
				Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
	DIVISION AND STATES—Continued												
	West South Central—Continued												
	Texas:												
	Number of establishments.....	289	286	83	...	55	28	195	1	168	26	8	3
	Number of employees.....	56,893	56,879	(D)	...	(D)	1,793	4,492	(D)	3,768	(D)	(D)	14
	Value added in mining.....\$1,000..	596,437	596,439	(D)	...	(D)	49,564	42,051	(D)	35,581	(D)	(D)	(4)
142	Crushed and broken stone:												
	Number of establishments.....	37	37	5	...	5	...	31	...	31	...	1	...
	Number of employees.....	1,191	1,191	(D)	...	(D)	...	1,160	...	1,160	...	(D)	...
	Value added in mining.....\$1,000..	11,122	11,122	(D)	...	(D)	...	10,647	...	10,647	...	(D)	...
144	Sand and gravel:												
	Number of establishments.....	191	191	56	...	35	21	135	...	108	25	...	...
	Number of employees.....	2,469	2,469	132	...	97	35	2,337	...	1,934	403	...	...
	Value added in mining.....\$1,000..	25,569	25,569	1,664	...	1,204	460	23,905	...	18,271	5,634	...	...
147	Chemical and fertilizer minerals:												
	Number of establishments.....	24	21	7	...	...	7	6	1	4	1	8	3
	Number of employees.....	2,010	1,996	1,758	...	...	1,758	144	(D)	(D)	(D)	94	14
	Value added in mining.....\$1,000..	52,925	52,927	49,104	...	...	49,104	2,288	(D)	(D)	(D)	1,535	(4)
	Mountain:												
	Number of establishments.....	572	553	223	14	185	24	320	29	256	35	10	19
	Number of employees.....	9,667	(D)	(D)	115	(D)	341	8,340	4,593	3,265	482	94	(D)
	Value added in mining....\$1,000..	150,144	(D)	(D)	840	(D)	3,028	127,310	74,819	46,837	5,654	2,200	(D)
142	Crushed and broken stone:												
	Number of establishments.....	69	68	17	...	17	...	50	2	48	...	1	1
	Number of employees.....	874	(D)	62	...	62	...	(D)	(D)	745	...	(D)	(D)
	Value added in mining.....\$1,000..	10,371	(D)	677	...	677	...	(D)	(D)	9,276	...	(D)	(D)
144	Sand and gravel:												
	Number of establishments.....	227	227	67	...	45	22	157	...	133	24	3	...
	Number of employees.....	1,869	1,869	(D)	...	406	(D)	1,412	...	1,182	230	(D)	...
	Value added in mining.....\$1,000..	30,507	30,507	(D)	...	12,723	(D)	16,912	...	14,489	2,423	(D)	...
145	Clay and related minerals:												
	Number of establishments.....	70	66	50	2	46	2	16	...	16	...	...	4
	Number of employees.....	670	660	174	(D)	(D)	(D)	486	...	486	...	...	10
	Value added in mining.....\$1,000..	12,863	12,857	2,309	(D)	(D)	(D)	10,548	...	10,548	...	...	6
147	Chemical and fertilizer minerals:												
	Number of establishments.....	72	64	17	6	10	1	42	19	18	5	5	8
	Number of employees.....	5,106	5,075	(D)	83	17	(D)	4,683	4,182	337	164	(D)	31
	Value added in mining.....\$1,000..	83,438	83,311	(D)	661	234	(D)	79,300	70,361	(D)	(D)	(D)	127
149	Miscellaneous minerals, nec:												
	Number of establishments.....	97	91	37	6	31	...	54	8	41	5	...	6
	Number of employees.....	1,075	1,056	113	(D)	(D)	...	943	351	501	91	...	19
	Value added in mining.....\$1,000..	12,448	12,447	1,601	(D)	(D)	...	10,846	4,115	6,215	516	...	1

See footnotes at end of table.



Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
			Total	Mining only				Mines with preparation plants					Separately operated preparation plants
				Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
	DIVISION AND STATES—Continued												
	Mountain—Continued												
	Montana:												
	Number of establishments.....	57	56	25	2	20	3	31	2	25	4	...	1
	Number of employees.....	725	(D)	301	(D)	65	(D)	(D)	(D)	283	(D)	...	(D)
	Value added in mining.....\$1,000..	10,257	(D)	2,445	(D)	797	(D)	(D)	(D)	5,749	(D)	...	(D)
	Sand and gravel:												
	Number of establishments.....	32	32	13	...	11	2	19	...	16	3	...	...
	Number of employees.....	192	192	(D)	...	48	(D)	(D)	...	115	(D)	...	...
	Value added in mining.....\$1,000..	3,467	3,467	(D)	...	573	(D)	(D)	...	2,483	(D)	...	...
147	Chemical and fertilizer minerals:												
	Number of establishments.....	6	6	2	1	...	1	4	1	2	1	...	...
	Number of employees.....	359	359	(D)	(D)	...	(D)	(D)	(D)	(D)	(D)	...	...
	Value added in mining.....\$1,000..	4,899	4,899	(D)	(D)	...	(D)	(D)	(D)	(D)	(D)	...	...
	Wyoming:												
	Number of establishments.....	42	41	7	1	6	...	31	2	23	6	3	1
	Number of employees.....	1,025	(D)	29	(D)	(D)	...	(D)	(D)	471	(D)	(D)	(D)
	Value added in mining.....\$1,000..	18,368	(D)	404	(D)	(D)	...	(D)	(D)	8,512	(D)	(D)	(D)
147	Chemical and fertilizer minerals:												
	Number of establishments.....	7	7	...	...	...	...	4	1	2	1	3	...
	Number of employees.....	552	552	...	...	...	...	(D)	(D)	(D)	(D)	(D)	...
	Value added in mining.....\$1,000..	9,860	9,860	...	...	...	...	(D)	(D)	(D)	(D)	(D)	...
	Colorado:												
	Number of establishments.....	138	134	63	2	58	3	68	4	54	10	3	4
	Number of employees.....	<sup>5</sup> 1,078	<sup>5</sup> 1,070	169	(D)	140	(D)	(D)	151	591	(D)	(D)	8
	Value added in mining.....\$1,000..	<sup>5</sup> 11,548	<sup>5</sup> 11,543	1,753	(D)	1,634	(D)	(D)	1,201	6,845	(D)	(D)	5
144	Sand and gravel:												
	Number of establishments.....	55	55	8	...	6	2	45	...	36	9	2	...
	Number of employees.....	457	457	(D)	...	45	(D)	397	...	348	49	(D)	...
	Value added in mining.....\$1,000..	5,639	5,639	(D)	...	630	(D)	4,958	...	4,637	321	(D)	...
	New Mexico:												
	Number of establishments.....	71	64	16	...	11	5	44	11	31	2	4	7
	Number of employees.....	<sup>5</sup> 4,087	<sup>5</sup> 4,063	<sup>5</sup> 65	...	(D)	(D)	3,978	3,541	(D)	(D)	20	24
	Value added in mining.....\$1,000..	<sup>5</sup> 67,142	<sup>5</sup> 66,997	<sup>5</sup> 780	...	(D)	(D)	65,710	(D)	(D)	(D)	507	145
144	Sand and gravel:												
	Number of establishments.....	26	26	8	...	3	5	17	...	15	2	1	...
	Number of employees.....	309	309	27	...	(D)	(D)	(D)	...	239	(D)	(D)	...
	Value added in mining.....\$1,000..	3,769	3,769	410	...	(D)	(D)	(D)	...	(D)	(D)	(D)	...
147	Chemical and fertilizer minerals:												
	Number of establishments.....	18	14	1	...	1	...	11	11	...	...	2	4
	Number of employees.....	3,554	3,543	(D)	...	(D)	...	3,541	3,541	...	...	(D)	11
	Value added in mining.....\$1,000..	60,470	(D)	(D)	...	(D)	...	(D)	(D)	...	...	(D)	(D)
	Arizona:												
	Number of establishments.....	91	91	52	3	43	6	39	4	29	6	...	...
	Number of employees.....	<sup>5</sup> 535	<sup>5</sup> 535	<sup>5</sup> 153	(D)	132	(D)	382	135	155	92	...	...
	Value added in mining.....\$1,000..	<sup>5</sup> 4,408	<sup>5</sup> 4,408	(D)	(D)	1,843	158	(D)	600	1,216	(D)	...	...

See footnotes at end of table.

Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of establishments, total	Producing establishments									Nonproducing establishments	
			Total	Mining only				Mines with preparation plants					Separately operated preparation plants
				Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods, well operations, and other methods <sup>2</sup>	Total	Underground mines	Open-pit mines <sup>1</sup>	Combination methods and other methods <sup>3</sup>		
	DIVISION AND STATES—Continued												
	Utah:												
	Sand and gravel:												
	Number of establishments.....	26	26	8	...	6	2	18	...	16	2	...	...
	Number of employees.....	379	379	(D)	...	229	(D)	(D)	...	130	(D)	...	...
	Value added in mining.....\$1,000..	12,030	12,030	(D)	...	10,399	(D)	(D)	...	1,382	(D)	...	...
	Nevada:												
	Sand and gravel:												
	Number of establishments.....	14	14	2	...	2	...	12	...	11	1	...	...
	Number of employees.....	152	152	(D)	...	(D)	...	(D)	...	126	(D)	...	...
	Value added in mining.....\$1,000..	1,796	1,796	(D)	...	(D)	...	(D)	...	1,320	(D)	...	...
	Pacific:												
	Number of establishments.....	747	735	217	15	165	37	509	9	412	88	9	12
	Number of employees.....	<sup>5</sup> 10,884	<sup>5</sup> 10,869	<sup>5</sup> 649	40	<sup>5</sup> 505	104	(D)	(D)	7,214	2,786	(D)	15
	Value added in mining....\$1,000..	<sup>5</sup> 162,643	<sup>5</sup> 162,684	<sup>5</sup> 9,779	626	<sup>5</sup> 7,724	1,429	(D)	(D)	(D)	34,513	(D)	( <sup>4</sup> )
142	Crushed and broken stone:												
	Number of establishments.....	165	162	23	...	23	...	138	3	135	...	1	3
	Number of employees.....	1,752	1,748	121	...	121	...	(D)	(D)	1,518	...	(D)	4
	Value added in mining.....\$1,000..	21,245	21,246	1,837	...	1,837	...	(D)	(D)	18,659	...	(D)	( <sup>4</sup> )
144	Sand and gravel:												
	Number of establishments.....	381	380	83	...	47	36	292	...	211	81	5	1
	Number of employees.....	4,727	(D)	(D)	...	(D)	102	(D)	...	3,373	(D)	27	(D)
	Value added in mining.....\$1,000..	73,058	(D)	(D)	...	(D)	1,421	(D)	...	55,055	(D)	210	(D)
145	Clay and related minerals:												
	Number of establishments.....	49	48	26	...	25	1	22	2	18	2	...	1
	Number of employees.....	454	(D)	(D)	...	(D)	(D)	413	(D)	372	(D)	...	(D)
	Value added in mining.....\$1,000..	6,037	(D)	(D)	...	(D)	(D)	5,229	(D)	4,884	(D)	...	(D)
149	Miscellaneous minerals, nec:												
	Number of establishments.....	105	99	56	15	41	...	43	1	41	1	...	6
	Number of employees.....	1,150	1,145	(D)	40	(D)	...	(D)	(D)	955	(D)	...	5
	Value added in mining.....\$1,000..	18,592	18,617	(D)	626	(D)	...	(D)	(D)	16,088	(D)	...	( <sup>4</sup> )
	Washington:												
	Number of establishments.....	128	125	37	...	32	5	86	3	77	6	2	3
	Number of employees.....	<sup>5</sup> 1,045	<sup>5</sup> 1,044	(D)	...	(D)	8	963	(D)	819	(D)	(D)	1
	Value added in mining.....\$1,000..	<sup>5</sup> 12,510	<sup>5</sup> 12,515	(D)	...	(D)	121	11,544	(D)	(D)	(D)	(D)	( <sup>4</sup> )
144	Sand and gravel:												
	Number of establishments.....	61	61	17	...	12	5	43	...	37	6	1	...
	Number of employees.....	427	427	16	...	8	8	(D)	...	300	(D)	(D)	...
	Value added in mining.....\$1,000..	5,942	5,942	368	...	247	121	(D)	...	4,314	(D)	(D)	...
	Oregon:												
	Number of establishments.....	126	126	22	...	12	10	103	1	80	22	1	...
	Number of employees.....	931	931	63	...	38	25	(D)	(D)	(D)	308	(D)	...
	Value added in mining.....\$1,000..	8,812	8,812	782	...	365	417	(D)	(D)	(D)	2,471	(D)	...
142	Crushed and broken stone:												
	Number of establishments.....	42	42	1	...	1	...	41	...	41	...	...	...
	Number of employees.....	301	301	(D)	...	(D)	...	(D)	...	(D)	...	...	...
	Value added in mining.....\$1,000..	2,899	2,899	(D)	...	(D)	...	(D)	...	(D)	...	...	...

See footnotes at end of table.



Table 2C.—Number of Establishments, Employment, and Value Added for the Nonmetallic Minerals Mining Industries, Except Service Industries, by Type of Operation for Industry Groups, Divisions, States, and Hawaii: 1958—Continued

(For explanation of line and column captions see Introduction)

Ind. code	Industry group, division, State, and item	All types of estab- lish- ments, total	Producing establishments									Nonpro- ducing estab- lish- ments	
			Total	Mining only				Mines with preparation plants					Seps- rately oper- ated prepa- ration plants
				Total	Under- ground mines	Open- pit mines <sup>1</sup>	Combina- tion methods, well op- erations, and other methods <sup>2</sup>	Total	Under- ground mines	Open- pit mines <sup>1</sup>	Combina- tion methods and other methods <sup>3</sup>		
	DIVISION AND STATES—Continued												
	Pacific—Continued												
144	Oregon—Continued												
	Sand and gravel:												
	Number of establish- ments.....	70	70	15	...	5	10	54	...	32	22	1	...
	Number of employees.....	532	532	(D)	...	(D)	25	496	...	188	308	(D)	...
	Value added in mining.....\$1,000..	5,059	5,059	(D)	...	(D)	417	4,482	...	2,011	2,471	(D)	...
	California:												
	Number of establish- ments.....	493	484	158	15	121	22	320	5	255	60	6	9
	Number of employees.....	8,894	8,880	(D)	40	385	(D)	8,357	(D)	5,841	(D)	(D)	14
	Value added in mining.....\$1,000..	141,258	141,294	(D)	626	6,462	(D)	133,179	(D)	101,343	(D)	(D)	(D)
142	Crushed and broken stone:												
	Number of establish- ments.....	82	80	16	...	16	...	64	2	62	...	...	2
	Number of employees.....	1,066	(D)	69	...	69	...	(D)	(D)	894	...	...	(D)
	Value added in mining.....\$1,000..	14,794	(D)	1,385	...	1,385	...	(D)	(D)	12,752	...	...	(D)
144	Sand and gravel:												
	Number of establish- ments.....	250	249	51	...	30	21	195	...	142	53	3	1
	Number of employees.....	3,768	(D)	228	...	159	69	3,516	...	2,885	631	(D)	(D)
	Value added in mining.....\$1,000..	62,057	(D)	3,256	...	2,373	883	58,678	...	48,730	9,948	(D)	(D)
147	Chemical and fertilizer minerals:												
	Number of establish- ments.....	18	17	2	...	2	...	12	2	6	4	3	1
	Number of employees.....	2,714	(D)	(D)	...	(D)	...	2,706	(D)	996	(D)	7	(D)
	Value added in mining.....\$1,000..	42,844	(D)	(D)	...	(D)	...	42,830	(D)	22,108	(D)	2	(D)
149	Miscellaneous minerals, nec:												
	Number of establish- ments.....	80	76	44	15	29	...	32	...	31	1	...	4
	Number of employees.....	1,032	1,027	112	40	72	...	915	...	(D)	(D)	...	5
	Value added in mining.....\$1,000..	17,694	17,714	1,975	626	1,349	...	15,739	...	(D)	(D)	...	( <sup>4</sup> )
	Hawaii:												
	Number of establish- ments.....	20	20	9	...	9	...	11	...	11	...	...	...
	Number of employees.....	9421	9421	945	...	945	...	376	...	376	...	...	...
	Value added in mining.....\$1,000..	94,550	94,550	9683	...	9683	...	3,867	...	3,867	...	...	...

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>For sand and gravel, represents bank, wet pit, and dry pit operations.

<sup>2</sup>Includes data for 287 sand and gravel establishments for which the method of mining was not specified.

<sup>3</sup>Includes data for 186 sand and gravel establishments for which the method of mining was not specified.

<sup>4</sup>Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeded capital expenditures.

<sup>5</sup>Includes figures for nonmetallic minerals mining services operations.

<sup>6</sup>Includes figures for employees at separately reported central offices and related facilities which were not distributed by type of operation.

<sup>7</sup>Includes data for one metal mining services establishment.

<sup>8</sup>Figures for one separately operated preparation plant are included with those for mines with preparation plants, combination methods and other methods.

<sup>9</sup>Includes figures for the Hawaii operations of one service establishment primarily engaged in metal mining services in Nevada.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 3.—Detailed Statistics for Nonmetallic Minerals

Item	All nonmetallic minerals mining operations		
	Total	14-Nonmetallic minerals mining industries	Included in manufactures
1 Number of operating companies.....	7,236	6,137	1,200
2 Number of establishments, total.....	8,872	7,306	1,566
3 With 0-19 employees.....	7,196	5,879	1,315
4 With 20-99 employees.....	1,499	1,279	220
5 With 100 employees and over.....	177	148	29
6 Including mines and quarries.....	8,732	7,166	1,566
7 Including preparation plants.....	5,405	5,183	222
8 Net shipments of primary products <sup>2</sup> .....1,000 short tons..	xxx	xxx	xxx
9 Value of shipments and receipts <sup>2</sup> .....\$1,000..	2,229,605	1,868,613	360,992
10 Minerals transferred to other establishments for preparation, and resales.....do....	66,861	60,991	5,870
11 Net shipments and receipts.....do....	2,162,744	1,807,622	355,122
12 Primary products or services.....do....	2,162,744	1,807,622	355,122
13 Other products and services.....do....			
14 Value added in mining.....do....	1,683,904	1,384,425	299,479
15 Number of persons engaged, total.....	(NA)	122,232	(NA)
16 Production and development workers, average for the year.....	115,095	95,364	19,731
17 All other employees.....	22,622	21,448	1,174
18 Proprietors and firm members.....	(NA)	5,420	(NA)
19 Performing manual labor.....	(NA)	2,851	(NA)
20 Man-hours worked by production and development workers, total.....1,000..	241,356	202,446	38,910
21 At mines and quarries, total.....do....	(NA)	111,857	(NA)
22 Underground.....do....	(NA)	11,119	(NA)
23 Open-pit or open quarry and well operations.....do....	(NA)	83,763	(NA)
24 Surface.....do....	(NA)	16,975	(NA)
25 At preparation plants.....do....	(NA)	90,589	(NA)
26 Man-hours spent on development and exploration work (included above).....do....	(NA)	2,877	(NA)
27 Principal expenses designated below, total.....\$1,000..	1,238,689	1,090,582	148,107
28 Wages of production and development workers.....do....	488,911	409,596	79,315
29 Salaries of all other employees.....do....	144,395	137,306	7,089
30 Minerals received for preparation.....do....	52,144	50,218	1,926
31 Supplies and purchases for resale.....do....	123,72,945	316,366	125,579
32 Purchased fuel.....do....	1279,496	78,707	12789
33 Purchased electric energy.....do....	1248,040	46,491	121,549
34 Contract work.....do....	1252,758	51,898	12860
35 Purchased machinery installed.....do....	9131,820	129,506	92,314
36 Capital expenditures, total.....do....	9191,502	188,998	92,504
37 Development and exploration of mineral property.....do....	137,781	7,781	(NA)
38 Preparation plant and other construction.....do....	940,657	40,450	9207
39 New machinery and equipment.....do....	9123,024	120,939	92,085
40 Used plant and equipment.....do....	920,040	19,828	9212
41 Energy used.....million kwh equivalent..	948,934	48,455	9479
42 Coal.....1,000 short tons..	9482	464	918
43 Fuel oil.....1,000 barrels..	94,561	4,521	940
44 Gas.....million cu. ft..	973,954	73,653	9301
45 Other fuels.....\$1,000..	917,777	17,569	9208
46 Undistributed.....do....	924,042	23,998	944
47 Electric energy purchased.....million kwh..	93,439	3,326	9113
48 Electric energy generated and used.....do....	9475	435	940

See footnotes at end of table.



## Mining Operations in the United States: 1958

Dimension stone											
All operations			Dimension limestone			Dimension granite			Dimension stone, nec		
Total	1411- Dimension stone industry	Included in manufac- tures	Total	Dimension limestone sub- industry	Included in manufac- tures	Total	Dimension granite sub- industry	Included in manufac- tures	Total	Dimension stone, nec sub- industry	Included in manufac- tures
7504	306	208	120	65	55	7114	63	56	7272	178	99
557	335	222	124	68	56	137	76	61	296	191	105
438	309	129	97	60	37	93	67	26	249	182	67
95	24	71	20	7	13	37	8	29	37	9	28
24	2	22	7	1	6	7	1	6	10	...	10
557	335	222	124	68	56	137	76	61	296	191	105
231	9	222	60	4	56	62	1	61	109	4	105
2,818	1,234	1,584	1,053	341	712	816	386	430	949	507	442
89,461	15,864	73,597	20,417	4,174	16,243	34,408	5,577	28,831	34,636	6,113	28,523
6,015	145	5,870	825	...	825	2,978	60	2,918	2,212	85	2,127
83,446	15,719	67,727	19,592	4,174	15,418	31,430	5,517	25,913	32,424	6,028	26,396
79,148	15,275	63,873	18,826	4,128	14,698	29,965	5,166	24,799	30,355	5,979	24,376
4,298	444	3,854	766	46	720	1,465	351	1,114	2,069	49	2,020
67,131	13,076	54,055	16,386	3,741	12,645	24,315	4,085	20,230	26,430	5,250	21,180
(NA)	2,575	(NA)	(NA)	640	(NA)	(NA)	785	(NA)	(NA)	1,150	(NA)
10,825	2,055	8,770	2,330	491	1,839	3,465	681	2,784	5,030	883	4,147
1,425	251	1,174	301	92	209	432	59	373	692	100	592
(NA)	269	(NA)	(NA)	57	(NA)	(NA)	45	(NA)	(NA)	167	(NA)
(NA)	175	(NA)	(NA)	38	(NA)	(NA)	24	(NA)	(NA)	113	(NA)
20,679	3,690	16,989	4,201	879	3,322	6,731	1,277	5,454	9,747	1,534	8,213
12,474	3,627	8,847	2,413	866	1,547	3,856	1,240	2,616	6,205	1,521	4,684
1,019	8	1,011	...	...	...	...	...	...	1,019	8	1,011
7,895	2,965	4,930	2,312	790	1,522	2,830	1,128	1,702	2,753	1,047	1,706
3,560	654	2,906	101	76	25	1,026	112	914	2,433	466	1,967
8,205	63	8,142	1,788	13	1,775	2,875	37	2,838	3,542	13	3,529
(NA)	55	(NA)	(NA)	16	(NA)	(NA)	...	(NA)	(NA)	39	(NA)
68,101	10,579	57,522	15,001	2,761	12,240	25,852	3,908	21,944	27,248	3,910	23,338
36,768	6,067	30,701	8,837	1,592	7,245	12,645	2,046	10,599	15,286	2,429	12,857
8,143	1,054	7,089	1,902	528	1,374	2,978	242	2,736	3,263	284	2,979
1,926	...	1,926	130	...	130	478	...	478	1,318	...	1,318
16,860	2,252	14,608	3,051	385	2,666	8,060	1,293	6,767	5,749	574	5,175
1,193	404	789	276	87	189	485	115	370	432	202	230
1,971	422	1,549	406	78	328	896	171	725	669	173	496
1,240	380	860	399	91	308	310	41	269	531	248	283
2,845	531	2,314	846	294	552	582	89	493	1,417	148	1,269
3,705	1,201	2,504	1,077	502	575	718	217	501	1,910	482	1,428
52	52	(NA)	15	15	(NA)	32	32	(NA)	5	5	(NA)
566	359	207	90	70	20	78	51	27	398	238	160
2,787	702	2,085	855	388	467	554	122	432	1,378	192	1,186
300	88	212	117	29	88	54	12	42	129	47	82
614	135	479	169	33	136	247	38	209	198	64	134
19	1	18	7	1	6	4	(14)	4	8	(14)	8
48	8	40	7	1	6	33	4	29	8	3	5
313	12	301	110	...	110	191	...	191	12	12	...
289	81	208	79	12	67	50	16	34	160	53	107
312	268	44	75	69	6	102	74	28	135	125	10
135	22	113	29	3	26	64	9	55	42	10	32
40	...	40	...	...	...	(D)	...	(D)	(D)	...	(D)

Table 3.—Detailed Statistics for Nonmetallic Minerals Mining

Item	Crushed and broken stone		
	All operations		
	Total	1421-Crushed and broken stone industry	Included in manufactures
1 Number of operating companies.....	1,680	1,597	111
2 Number of establishments, total.....	2,176	1,957	219
3 With 0-19 employees.....	1,435	1,313	122
4 With 20-99 employees.....	695	602	93
5 With 100 employees and over.....	46	42	4
6 Including mines and quarries.....	2,152	1,933	219
7 Including preparation plants.....	1,813	1,813	...
8 Net shipments of primary products <sup>2</sup> .....1,000 short tons..	476,255	385,898	90,357
9 Value of shipments and receipts <sup>2</sup> .....\$1,000..	754,809	616,076	138,733
10 Minerals transferred to other establishments for preparation, and resales...do....	13,771	13,771	xxx
11 Net shipments and receipts.....do....	741,038	602,305	138,733
12 Primary products or services.....do....	719,584	580,851	138,733
13 Other products and services.....do....	21,454	21,454	(NA)
14 Value added in mining.....do....	562,435	445,788	116,647
15 Number of persons engaged, total.....	(NA)	42,727	(NA)
16 Production and development workers, average for the year.....	39,846	34,865	84,981
17 All other employees.....	96,539	6,539	(NA)
18 Proprietors and firm members.....	(NA)	1,323	(NA)
19 Performing manual labor.....	(NA)	611	(NA)
20 Man-hours worked by production and development workers, total.....1,000..	85,594	75,632	9,962
21 At mines and quarries, total.....do....	(NA)	44,242	(NA)
22 Underground.....do....	(NA)	3,293	(NA)
23 Open-pit or open quarry and well operations.....do....	(NA)	31,655	(NA)
24 Surface.....do....	(NA)	9,294	(NA)
25 At preparation plants.....do....	(NA)	31,390	(NA)
26 Man-hours spent on development and exploration work (included above).....do....	(NA)	594	(NA)
27 Principal expenses designated below, total.....\$1,000..	421,398	376,171	45,227
28 Wages of production and development workers.....do....	170,407	147,266	23,141
29 Salaries of all other employees.....do....	41,135	41,135	(NA)
30 Minerals received for preparation.....do....	2,185	2,185	xxx
31 Supplies and purchases for resale.....do....	207,671	133,022	22,086
32 Purchased fuel.....do....		21,809	
33 Purchased electric energy.....do....		14,513	
34 Contract work.....do....		16,241	
35 Purchased machinery installed.....do....	(NA)	51,238	(NA)
36 Capital expenditures, total.....do....	(NA)	68,720	(NA)
37 Development and exploration of mineral property.....do....	(NA)	1,959	(NA)
38 Preparation plant and other construction.....do....	(NA)	16,161	(NA)
39 New machinery and equipment.....do....	(NA)	43,772	(NA)
40 Used plant and equipment.....do....	(NA)	6,828	(NA)
41 Energy used.....million kwh equivalent..	(NA)	8,307	(NA)
42 Coal.....1,000 short tons..	(NA)	186	(NA)
43 Fuel oil.....1,000 barrels..	(NA)	1,128	(NA)
44 Gas.....million cu. ft..	(NA)	1,709	(NA)
45 Other fuels.....\$1,000..	(NA)	7,474	(NA)
46 Undistributed.....do....	(NA)	6,672	(NA)
47 Electric energy purchased.....million kwh..	(NA)	891	(NA)
48 Electric energy generated and used.....do....	(NA)	56	(NA)

See footnotes at end of table.



## Operations in the United States: 1958—Continued

Crushed and broken stone—Continued							Sand and gravel					
Crushed and broken limestone				Crushed and broken stone, nec			All operations			Mineral subindustries		
Total	Crushed and broken limestone sub-industry	Included in manufac-tures	Crushed and broken granite sub-industry	Total	Crushed and broken stone, nec sub-industry	Included in manufac-tures	Total	1441-Sand and gravel industry	Included in manufac-tures	Common sand and gravel	Glass sand	Molding sand
1,252	1,176	104	87	352	334	18	3,690	13,350	371	3,213	39	98
1,656	1,458	198	121	399	378	21	4,084	3,703	381	3,534	45	124
1,075	974	101	60	300	279	21	3,575	3,221	354	3,087	26	108
546	453	93	58	91	91	...	481	456	25	425	16	15
35	31	4	3	8	8	...	28	26	2	22	3	1
1,639	1,441	198	121	392	371	21	4,071	3,690	381	3,524	42	124
1,387	1,387	...	108	318	318	...	2,758	2,758	...	2,618	39	101
383,265	293,633	89,632	33,301	57,372	56,647	725	542,424	481,251	61,173	465,278	6,311	6,034
596,356	459,037	137,319	49,596	108,857	107,443	1,414	631,485	560,806	70,679	516,090	28,343	16,373
12,177	12,177	xxx	205	1,389	1,389	xxx	8,600	8,600	xxx	7,834	(D)	(D)
584,179	446,860	137,319	49,391	107,468	106,054	1,414	622,885	552,206	70,679	508,256	(D)	(D)
567,326	430,007	137,319	48,467	100,661	99,247	1,414	589,136	518,457	70,679	473,717	(D)	(D)
16,853	16,853	(NA)	924	6,807	6,807	(NA)	33,749	33,749	(NA)	34,539	8,901	2,054
449,736	334,368	115,368	33,493	79,206	77,927	1,279	497,864	434,468	63,396	401,700	20,672	12,096
(NA)	32,496	(NA)	3,341	(NA)	6,890	(NA)	(NA)	40,005	(NA)	37,033	1,642	1,330
31,272	26,372	84,900	2,906	5,668	5,587	881	33,171	30,630	82,541	28,268	1,339	1,023
95,036	5,036	(NA)	403	91,100	1,100	(NA)	96,418	6,418	(NA)	5,896	289	233
(NA)	1,088	(NA)	32	(NA)	203	(NA)	(NA)	2,957	(NA)	2,869	14	74
(NA)	499	(NA)	14	(NA)	98	(NA)	(NA)	1,592	(NA)	1,536	8	48
66,912	57,112	9,800	6,442	12,240	12,078	162	71,562	66,480	5,082	61,733	2,833	1,914
(NA)	34,719	(NA)	3,380	(NA)	6,143	(NA)	(NA)	35,562	(NA)	33,782	784	996
(NA)	3,068	(NA)	...	(NA)	225	(NA)	(NA)	129	(NA)	129	...	...
(NA)	23,522	(NA)	2,891	(NA)	5,242	(NA)	(NA)	(NA)	(NA)	(NA)	...	...
(NA)	8,129	(NA)	489	(NA)	676	(NA)	(NA)	(NA)	(NA)	(NA)	784	996
(NA)	22,393	(NA)	3,062	(NA)	5,935	(NA)	(NA)	30,918	(NA)	27,951	2,049	918
(NA)	479	(NA)	40	(NA)	75	(NA)	(NA)	835	(NA)	825	5	5
328,283	283,467	44,816	27,943	65,172	64,761	411	335,059	316,757	18,302	291,415	15,511	9,831
134,120	111,255	22,865	10,771	25,516	25,240	276	145,460	134,441	11,019	124,802	5,730	3,909
32,103	32,103	(NA)	2,204	6,828	6,828	(NA)	37,885	37,885	...	34,582	1,767	1,536
2,056	2,056	xxx	...	129	129	xxx	870	870	xxx	793	(15)	(15)
160,004	97,175	...	12,351	...	23,496	...	...	88,753	...	81,010	155,520	152,300
	17,442	21,951	674	32,699	3,693	135	150,844	25,342	7,283	23,085	1,265	992
	10,881		1,309		2,323			14,099		12,471	1,084	544
	12,555		634		3,052			15,367		14,672	145	550
(NA)	38,894	(NA)	5,838	(NA)	6,506	(NA)	(NA)	38,469	(NA)	35,177	2,360	932
(NA)	54,334	(NA)	4,703	(NA)	9,683	(NA)	(NA)	56,562	(NA)	52,818	2,703	1,041
(NA)	1,752	(NA)	61	(NA)	146	(NA)	(NA)	1,842	(NA)	1,808	19	15
(NA)	12,411	(NA)	948	(NA)	2,802	(NA)	(NA)	14,894	(NA)	13,569	1,012	313
(NA)	34,801	(NA)	3,310	(NA)	5,661	(NA)	(NA)	28,975	(NA)	26,634	1,656	685
(NA)	5,370	(NA)	384	(NA)	1,074	(NA)	(NA)	10,851	(NA)	10,807	16	28
(NA)	6,878	(NA)	384	(NA)	1,045	(NA)	(NA)	8,596	(NA)	7,249	966	381
(NA)	179	(NA)	(14)	(NA)	7	(NA)	(NA)	107	(NA)	34	73	(14)
(NA)	947	(NA)	94	(NA)	87	(NA)	(NA)	1,050	(NA)	910	36	104
(NA)	1,471	(NA)	26	(NA)	212	(NA)	(NA)	1,642	(NA)	760	596	286
(NA)	5,997	(NA)	375	(NA)	1,102	(NA)	(NA)	8,117	(NA)	7,750	162	205
(NA)	5,048	(NA)	171	(NA)	1,453	(NA)	(NA)	10,340	(NA)	10,059	146	135
(NA)	673	(NA)	80	(NA)	138	(NA)	(NA)	862	(NA)	746	86	30
(NA)	54	(NA)	...	(NA)	2	(NA)	(NA)	32	(NA)	16	(D)	(D)

Table 3.—Detailed Statistics for Nonmetallic Minerals Mining

Item	Clay and related minerals		
	All operations		
	Total	145-Clay and related minerals industries	Included in manufactures
1 Number of operating companies.....	886	1396	520
2 Number of establishments, total.....	1,202	490	712
3 With 0-19 employees.....	1,073	378	695
4 With 20-99 employees.....	114	97	17
5 With 100 employees and over.....	15	15	...
6 Including mines and quarries.....	1,202	490	712
7 Including preparation plants.....	183	183	...
8 Net shipments of primary products <sup>2</sup> .....1,000 short tons..	43,513	13,834	29,679
9 Value of shipments and receipts <sup>2</sup> .....\$1,000..	173,597	122,738	50,859
10 Minerals transferred to other establishments for preparation, and resales.....do....	1,046	1,046	xxx
11 Net shipments and receipts.....do....	172,551	121,692	50,859
12 Primary products or services.....do....	168,243	117,384	50,859
13 Other products and services.....do....	4,308	4,308	(NA)
14 Value added in mining.....do....	128,954	87,368	41,586
15 Number of persons engaged, total.....	(NA)	9,045	(NA)
16 Production and development workers, average for the year.....	9,872	7,298	82,574
17 All other employees.....	91,475	1,475	(NA)
18 Proprietors and firm members.....	(NA)	272	(NA)
19 Performing manual labor.....	(NA)	146	(NA)
20 Man-hours worked by production and development workers, total.....1,000..	20,044	14,897	5,147
21 At mines and quarries, total.....do....	(NA)	6,017	(NA)
22 Underground.....do....	(NA)	615	(NA)
23 Open-pit or open quarry and well operations.....do....	(NA)	4,846	(NA)
24 Surface.....do....	(NA)	556	(NA)
25 At preparation plants.....do....	(NA)	8,880	(NA)
26 Man-hours spent on development and exploration work (included above).....do....	(NA)	362	(NA)
27 Principal expenses designated below, total.....\$1,000..	95,324	75,380	19,944
28 Wages of production and development workers.....do....	37,551	26,880	10,671
29 Salaries of all other employees.....do....	9,277	9,277	...
30 Minerals received for preparation.....do....	874	874	xxx
31 Supplies and purchases for resale.....do....	47,622	21,295	9,273
32 Purchased fuel.....do....		9,605	
33 Purchased electric energy.....do....		3,585	
34 Contract work.....do....		3,864	
35 Purchased machinery installed.....do....	(NA)	9,344	(NA)
36 Capital expenditures, total.....do....	(NA)	13,197	(NA)
37 Development and exploration of mineral property.....do....	(NA)	4,238	(NA)
38 Preparation plant and other construction.....do....	(NA)	8,959	(NA)
39 New machinery and equipment.....do....	(NA)		(NA)
40 Used plant and equipment.....do....	(NA)		(NA)
41 Energy used.....million kwh equivalent..	(NA)	5,477	(NA)
42 Coal.....1,000 short tons..	(NA)	92	(NA)
43 Fuel oil.....1,000 barrels..	(NA)	615	(NA)
44 Gas.....million cu. ft..	(NA)	7,885	(NA)
45 Other fuels.....\$1,000..	(NA)	1,027	(NA)
46 Undistributed.....do....	(NA)	2,907	(NA)
47 Electric energy purchased.....million kwh..	(NA)	295	(NA)
48 Electric energy generated and used.....do....	(NA)	2	(NA)

See footnotes at end of table.



## Operations in the United States: 1958-Continued

Clay and related minerals—Continued											
1452- Bentonite industry	Fire clay			1454- Fuller's earth industry	1455- Kaolin and ball clay industry	1456- Feldspar industry	1457- Magnesite and brucite industry	Clay and related minerals, nec			
	Total	1453- Fire clay industry	Included in manufac- tures					Total	1459- Clay and related min- erals, nec, industry	Included in manufac- tures	
29	(NA)	136	(NA)	13	41	64	4	1525	109	1439	1
41	317	182	135	14	53	74	4	699	122	577	2
26	289	163	126	8	27	64	1	658	89	569	3
15	27	18	9	4	17	9	1	41	33	8	4
...	1	1	...	2	9	1	2	...	...	...	5
41	317	182	135	14	53	74	4	699	122	577	6
25	31	31	...	11	43	12	3	58	58	...	7
31,558	8,447	4,000	4,447	285	2,580	439	154	30,050	4,818	25,232	8
16,843	32,944	18,606	14,338	8,692	42,434	6,889	7,270	58,525	22,004	36,521	9
(D)	185	185	xxx	(D)	(D)	456	...	(D)	(D)	xxx	10
(D)	32,759	18,421	14,338	(D)	(D)	6,433	7,270	(D)	(D)	36,521	11
(D)	31,897	17,559	14,338	6,775	(D)	5,772	7,270	58,262	21,741	36,521	12
240	862	862	(NA)	(D)	463	661	...	(D)	(D)	(NA)	13
12,220	25,848	14,540	11,308	5,955	30,990	4,531	5,978	43,432	13,154	30,278	14
709	(NA)	1,595	(NA)	659	3,412	619	338	(NA)	1,713	(NA)	15
543	2,084	1,279	805	527	2,722	496	267	3,233	1,464	1,769	16
145	194	194	(NA)	125	672	71	70	198	198	(NA)	17
21	122	122	(NA)	7	18	52	1	(NA)	51	(NA)	18
6	59	59	(NA)	...	6	44	1	30	30	...	19
1,140	3,824	2,214	1,610	1,145	5,675	1,028	428	6,804	3,267	3,537	20
389	(NA)	1,783	(NA)	235	1,980	393	222	(NA)	1,015	(NA)	21
16	(NA)	489	(NA)	...	26	9	...	(NA)	75	(NA)	22
363	(NA)	1,174	(NA)	146	1,712	359	203	(NA)	889	(NA)	23
10	(NA)	120	(NA)	89	242	25	19	(NA)	51	(NA)	24
751	(NA)	431	(NA)	910	3,695	635	206	(NA)	2,252	(NA)	25
22	(NA)	100	(NA)	3	215	9	...	(NA)	13	(NA)	26
7,582	17,145	10,498	6,647	5,452	26,696	4,306	4,092	30,051	16,754	13,297	27
1,996	8,606	4,989	3,617	1,673	9,719	1,515	1,386	12,656	5,602	7,054	28
889	1,031	1,031	...	726	4,295	404	539	1,393	1,393	...	29
(15)	176	176	...	(15)	(15)	456	...	...	...	xxx	30
152,406	7,332	2,118	3,030	151,754	158,739	1,055	1,010	4,455	4,455	...	31
720		1,090		748	2,157	324	794	3,772	3,772	6,243	32
390		264		270	1,194	396	220	851	851		33
1,181		830		281	592	156	143	681	681		34
1,009	(NA)	1,695	(NA)	263	2,913	1,277	114	(NA)	2,073	(NA)	35
1,083	(NA)	2,107	(NA)	579	4,151	1,306	989	(NA)	2,982	(NA)	36
125	(NA)	189	(NA)	256	330	22	...	(NA)	62	(NA)	37
4	(NA)	153	(NA)		1,053	208	934	(NA)	902	(NA)	38
946	(NA)	1,562	(NA)	323	2,676	1,053	55	(NA)	1,885	(NA)	39
8	(NA)	203	(NA)		92	23	...	(NA)	133	(NA)	40
576	(NA)	382	(NA)	323	1,433	127	391	(NA)	2,245	(NA)	41
...	(NA)	...	(NA)	...	...	(NA)	28	(NA)	64	(NA)	42
63	(NA)	100	(NA)	36	186	(NA)	90	(NA)	140	(NA)	43
1,334	(NA)	87	(NA)	446	2,844	(NA)	...	(NA)	3,174	(NA)	44
103	(NA)	209	(NA)	35	342	(NA)	1	(NA)	337	(NA)	45
5	(NA)	488	(NA)	380	140	324	...	(NA)	1,570	(NA)	46
31	(NA)	10	(NA)	21	120	30	22	(NA)	61	(NA)	47
...	(NA)	(D)	(NA)	...	(D)	...	...	(NA)	(D)	(NA)	48

Table 3.—Detailed Statistics for Nonmetallic Minerals Mining

	Item	147-Chemical and fertilizer minerals		
		Total	1472- Barite industry	1473- Fluorspar industry
1	Number of operating companies.....	207	41	50
2	Number of establishments, total.....	271	53	55
3	With 0-19 employees.....	169	45	44
4	With 20-99 employees.....	51	6	8
5	With 100 employees and over.....	51	2	3
6	Including mines and quarries.....	243	52	51
7	Including preparation plants.....	170	35	27
8	Net shipments of primary products <sup>2</sup> .....1,000 short tons..	xxx	603	275
9	Value of shipments and receipts <sup>2</sup> .....\$1,000..	464,612	13,768	19,977
10	Minerals transferred to other establishments for preparation, and resales.....do....	37,140	(D)	3,338
11	Net shipments and receipts.....do....	427,472	(D)	16,639
12	Primary products or services.....do....	419,407	13,434	15,443
13	Other products and services.....do....	8,065	(D)	1,196
14	Value added in mining.....do....	335,153	11,321	12,653
15	Number of persons engaged, total.....	20,699	962	1,301
16	Production and development workers, average for the year.....	14,832	781	1,044
17	All other employees.....	5,724	148	191
18	Proprietors and firm members.....	143	33	66
19	Performing manual labor.....	66	19	27
20	Man-hours worked by production and development workers, total.....1,000..	30,405	1,588	2,105
21	At mines and quarries, total.....do....	16,442	719	1,173
22	Underground.....do....	5,789	240	913
23	Open-pit or open quarry and well operations.....do....	5,386	429	111
24	Surface.....do....	5,267	50	149
25	At preparation plants.....do....	13,963	869	932
26	Man-hours spent on development and exploration work (included above).....do....	577	28	96
27	Principal expenses designated below, total.....\$1,000..	261,192	6,571	13,742
28	Wages of production and development workers.....do....	74,527	2,698	4,336
29	Salaries of all other employees.....do....	41,449	704	1,280
30	Minerals received for preparation.....do....	46,019		3,338
31	Supplies and purchases for resale.....do....	55,790	1,953	2,504
32	Purchased fuel.....do....	18,432	281	563
33	Purchased electric energy.....do....	11,641	554	594
34	Contract work.....do....	13,334	381	1,127
35	Purchased machinery installed.....do....	23,373	251	764
36	Capital expenditures, total.....do....	39,130	973	1,566
37	Development and exploration of mineral property.....do....	2,139	204	627
38	Preparation plant and other construction.....do....	3,655	426	160
39	New machinery and equipment.....do....	32,684	307	702
40	Used plant and equipment.....do....	652	36	77
41	Energy used.....million kwh equivalent..	24,464	198	379
42	Coal.....1,000 short tons..	78	(NA)	(NA)
43	Fuel oil.....1,000 barrels..	1,699	(NA)	(NA)
44	Gas.....million cu. ft..	62,405	(NA)	(NA)
45	Other fuels.....\$1,000..	676	(NA)	(NA)
46	Undistributed.....do....	1,003	281	563
47	Electric energy purchased.....million kwh..	1,061	43	41
48	Electric energy generated and used.....do....	339	...	(D)

See footnotes at end of table.



## Operations in the United States: 1958-Continued

147-Chemical and fertilizer minerals-Continued					148-Nonmetallic minerals services		
1474- Potash, soda, borate minerals industry	1475- Phosphate rock industry	1476- Rock salt industry	1477- Sulfur industry	1479- Chemical- fertilizer mining, nec industry	Total	1481- Nonmetallic minerals stripping industry	1482- Nonmetallic services, nec industry
19	43	18	14	28	74	46	28
21	65	22	24	31	75	47	28
7	28	10	11	24	69	44	25
4	20	6	2	5	4	2	4
10	17	6	11	2	2	1	1
21	52	22	24	21	xxx	xxx	xxx
17	44	21	5	21	xxx	xxx	xxx
35,544	415,605	55,445	44,619	xxx	xxx	xxx	xxx
141,115	132,094	41,813	106,202	9,643	7,934	4,787	3,147
(D)	32,985	(D)	...	(D)	...	...	...
(D)	99,109	(D)	106,202	(D)	7,934	4,787	3,147
(D)	99,036	(D)	106,200	9,452	7,282	4,278	3,004
2,308	73	4,190	2	(D)	652	509	143
111,082	64,375	34,073	94,063	7,586	6,217	3,780	2,437
6,664	5,420	1,991	3,679	682	1,188	676	512
4,590	3,955	1,602	2,303	557	1,037	588	449
2,071	1,438	382	1,374	120	72	38	34
3	27	7	2	5	79	50	29
...	14	4	...	2	44	29	15
9,212	8,255	3,508	4,644	1,093	1,893	1,069	824
3,507	3,824	1,998	4,617	604	101,893	101,069	10824
2,466	510	1,389	...	271	(10)	(10)	(10)
215	1,944	84	2,412	191	101,124	101,047	1077
826	1,370	525	2,205	142	16769	1022	10747
5,705	4,431	1,510	27	489	(10)	(10)	(10)
110	228	...	63	52	11231	11106	11125
75,557	94,536	19,218	45,914	5,654	5,387	3,021	2,366
26,746	17,185	7,937	13,267	2,358	3,038	1,636	1,402
14,321	10,025	3,059	11,303	757	484	271	213
22,643	41,864	7,363	...	...	xxx	xxx	xxx
7,144	12,776	311	7,363	2,005	1,289	686	603
3,026	3,562	311	6,440	131	379	259	120
1,677	6,729	455	45	238	51	32	19
6,936	2,395	93	7,496	165	146	137	9
11,393	6,095	2,125	7,077	125	700	484	216
608	5,702	2,607	16,282	607	848	591	257
1,557	426	9	...	...	...	...	...
8,994	307	480	16,282	607	74	22	52
234	4,916	2,118	...	...	705	506	199
8,452	53	...	11,819	80	69	63	6
(NA)	3,120	416	(NA)	(NA)	105	73	32
760	78	(NA)	7	10	...	...	...
22,153	902	20	38,105	101	21	18	3
104	972	1,074	305	28	...	...	...
3	180	59	16	19	194	102	92
312	110	11	2	20	72	62	10
248	609	34	69	...	2	1	1
...	...	(D)	...	...	...	...	...

Table 3.—Detailed Statistics for Nonmetallic Minerals Mining

Item	Miscellaneous minerals, nec		
	All operations		
	Total	149-Miscellaneous minerals industries	Included in manufactures
1 Number of operating companies.....	1439	432	8
2 Number of establishments, total.....	507	475	32
3 With 0-19 employees.....	436	420	16
4 With 20-99 employees.....	60	45	15
5 With 100 employees and over.....	11	10	1
6 Including mines and quarries.....	507	475	32
7 Including preparation plants.....	250	250	...
8 Net shipments of primary products <sup>2</sup> .....1,000 short tons..	xxx	xxx	xxx
9 Value of shipments and receipts <sup>2</sup> .....\$1,000..	107,707	80,583	27,124
10 Minerals transferred to other establishments for preparation, and resales...do...	289	289	xxx
11 Net shipments and receipts.....do...	107,418	80,294	27,124
12 Primary products or services.....do...	106,703	79,579	27,124
13 Other products and services.....do...	715	715	(NA)
14 Value added in mining.....do...	86,150	62,355	23,795
15 Number of persons engaged, total.....	(NA)	5,993	(NA)
16 Production and development workers, average for the year.....	5,512	4,647	8865
17 All other employees.....	969	969	(NA)
18 Proprietors and firm members.....	(NA)	377	(NA)
19 Performing manual labor.....	(NA)	217	(NA)
20 Man-hours worked by production and development workers, total.....1,000..	11,179	9,449	1,730
21 At mines and quarries, total.....do...	(NA)	4,074	(NA)
22 Underground.....do...	(NA)	1,285	(NA)
23 Open-pit or open quarry and well operations.....do...	(NA)	2,354	(NA)
24 Surface.....do...	(NA)	435	(NA)
25 At preparation plants.....do...	(NA)	5,375	(NA)
26 Man-hours spent on development and exploration work (included above).....do...	(NA)	223	(NA)
27 Principal expenses designated below, total.....\$1,000..	52,228	45,116	7,112
28 Wages of production and development workers.....do...	21,160	17,377	3,783
29 Salaries of all other employees.....do...	6,022	6,022	...
30 Minerals received for preparation.....do...	270	270	...
31 Supplies and purchases for resale.....do...	24,776	13,965	3,329
32 Purchased fuel.....do...		2,736	
33 Purchased electric energy.....do...		2,180	
34 Contract work.....do...		2,566	
35 Purchased machinery installed.....do...	(NA)	5,851	(NA)
36 Capital expenditures, total.....do...	(NA)	9,340	(NA)
37 Development and exploration of mineral property.....do...	(NA)	1,036	(NA)
38 Preparation plant and other construction.....do...	(NA)	1,822	(NA)
39 New machinery and equipment.....do...	(NA)	5,603	(NA)
40 Used plant and equipment.....do...	(NA)	879	(NA)
41 Energy used.....million kwh equivalent..	(NA)	1,371	(NA)
42 Coal.....1,000 short tons..	(NA)	(NA)	(NA)
43 Fuel oil.....1,000 barrels..	(NA)	(NA)	(NA)
44 Gas.....million cu. ft..	(NA)	(NA)	(NA)
45 Other fuels.....\$1,000..	(NA)	(NA)	(NA)
46 Undistributed.....do...	(NA)	2,736	(NA)
47 Electric energy purchased.....million kwh..	(NA)	193	(NA)
38 Electric energy generated and used.....do...	(NA)	6	(NA)

NA Not available.

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>Represents the sum of the figures shown for the separate industries and probably includes some duplication due to the same company operating in more than one industry.<sup>2</sup>Represents the product indicated by the industry or subindustry name. For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment.<sup>3</sup>Includes production in other industries, amounting to less than one percent of the total.<sup>4</sup>Represents 1,000 long tons.<sup>5</sup>Includes shipments by other industries, amounting to less than 10 percent of the total.<sup>6</sup>Represents production of crude material.<sup>7</sup>Represents production. For peat, see also footnote 3. For natural abrasives, except sand includes production in other industries, amounting to less than 5 percent of the total.



## Operations in the United States: 1958-Continued

Miscellaneous minerals, nec-Continued										
Gypsum			1493- Mica industry	1494- Native asphalt and bitumens industry	1495- Pumice and pumicite industry	1496- Talc, soapstone, pyrophyllite industry	1497- Natural abrasives, except sand industry	1498- Peat industry	1499- Nonmetallic minerals, nec industry	
Total	1492- Gypsum industry	Included in manufactures								
36	29	8	142	8	63	43	20	80	47	1
64	32	32	149	10	64	64	20	81	55	2
44	28	16	141	5	62	52	16	78	38	3
18	3	15	8	4	2	9	3	3	13	4
2	1	1	...	1	...	3	1	...	4	5
64	32	32	149	10	64	64	20	81	55	6
19	19	...	56	9	28	23	16	60	39	7
69,384	62,569	66,815	94	71,615	71,837	6726	766	7366	xxx	8
34,172	7,048	27,124	6,221	8,041	5,002	14,908	3,373	4,379	31,611	9
...	...	xxx	5	...	...	(D)	...	9	(D)	10
34,172	7,048	27,124	6,216	8,041	5,002	(D)	3,373	4,370	(D)	11
34,160	7,036	27,124	6,103	8,027	(D)	(D)	(D)	(D)	(D)	12
12	12	(NA)	113	14	(D)	301	(D)	(D)	113	13
29,753	5,958	23,795	4,974	5,954	4,058	11,755	2,648	3,640	23,368	14
(NA)	426	(NA)	916	468	350	1,328	245	448	1,812	15
1,219	354	865	649	367	271	1,123	204	335	1,344	16
952	52	(NA)	78	97	45	171	25	54	447	17
(NA)	20	(NA)	189	4	34	34	16	59	21	18
(NA)	10	(NA)	115	...	12	17	8	47	8	19
2,506	776	1,730	1,204	732	409	2,289	408	613	3,018	20
(NA)	574	(NA)	621	421	233	889	106	322	908	21
(NA)	91	(NA)	237	138	...	530	...	...	289	22
(NA)	426	(NA)	335	132	232	278	101	311	539	23
(NA)	57	(NA)	49	151	1	81	5	11	80	24
(NA)	202	(NA)	583	311	176	1,400	302	291	2,110	25
(NA)	15	(NA)	47	10	15	51	...	41	44	26
10,249	3,137	7,112	3,848	4,558	2,360	8,862	1,793	2,386	18,172	27
5,264	1,481	3,783	1,709	1,398	907	4,157	801	974	5,950	28
324	324	...	298	867	196	1,163	206	308	2,660	29
...	...	xxx	...	...	...	...	...	...	6,264	30
3,661	975	3,329	995	1,538	760	2,428	513	762	31	31
	166		366	79	270		181	174	1,239	32
	118		206	270	68		22	34	915	33
	73		304	406	159		70	134	1,144	34
(NA)	578	(NA)	577	517	267	509	88	446	2,869	35
(NA)	820	(NA)	1,171	723	580	898	149	811	4,188	36
(NA)	28	(NA)	315	175	54	128	1	137	198	37
(NA)	69	(NA)	218	19	212	169	42	111	982	38
(NA)	682	(NA)	434	510	205	482	106	455	2,729	39
(NA)	41	(NA)	204	19	109	119	...	108	279	40
(NA)	74	(NA)	115	50	111	153	73	79	716	41
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	42
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	43
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	44
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	45
(NA)	166	(NA)	336	79	270	291	181	174	1,239	46
(NA)	8	(NA)	14	18	3	51	1	2	96	47
(NA)	...	(NA)	...	...	...	...	(D)	...	(D)	48

<sup>8</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the number of production and development workers was estimated from reported figures for man-hours.

<sup>9</sup>Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

<sup>10</sup>Somewhat different detail was reported for service establishments. The figures shown under "Open pit" represent those reported for stripping overburden and for mining minerals for the account of others. The figures shown under "Surface" represent exploration work, including geophysical and other exploratory surveying, and such other services as drilling.

<sup>11</sup>Represents man-hours devoted to exploration work, including geophysical and other exploratory surveying, and to stripping overburden.

<sup>12</sup>For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, figures for the cost of purchased fuels, purchased electricity, and contract work are included with those for the cost of supplies.

<sup>13</sup>Excludes data for mining operations in manufacturing establishments.

<sup>14</sup>Less than one-half of the unit of measure specified.

<sup>15</sup>Minerals received for preparation are included with supplies and purchases for resale.

Table 4.—Selected Statistics for Nonmetallic Minerals Mining Establishments, Classified by Employment Size, for the United States, and Number of Nonmetallic Minerals Operations by Employment Size for Divisions, States, Alaska, and Hawaii: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. Unless otherwise specified, (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Item, division, and State	All establishments, total	Establishments with an average of—									
		0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
MINERAL INDUSTRIES											
United States, total:											
Number of establishments.....	7,306	3,210	1,321	1,348	1,039	240	116	24	7	1	
All employees:											
Number.....	<sup>1</sup> 116,812	5,527	9,054	<sup>2</sup> 18,752	31,168	<sup>2</sup> 16,850	<sup>3</sup> 19,604	<sup>3</sup> 7,925	<u>6,303</u>	(D)	...
Payroll.....\$1,000..	<sup>1</sup> 546,902	20,175	36,671	<sup>2</sup> 79,004	139,843	<sup>2</sup> 77,469	<sup>3</sup> 102,684	<sup>3</sup> 40,230	<u>37,626</u>	(D)	...
Production and development workers:											
Number.....	95,364	5,110	7,616	<sup>2</sup> 15,774	26,121	<sup>2</sup> 14,262	<sup>3</sup> 15,447	<sup>3</sup> 6,293	<u>4,741</u>	(D)	...
Man-hours.....1,000..	202,446	10,016	15,508	<sup>2</sup> 33,108	57,597	<sup>2</sup> 31,448	<sup>3</sup> 32,429	<sup>3</sup> 12,959	<u>9,381</u>	(D)	...
Wages.....\$1,000..	409,596	18,289	30,274	<sup>2</sup> 63,415	109,619	<sup>2</sup> 60,370	<sup>3</sup> 71,125	<sup>3</sup> 29,533	<u>26,971</u>	(D)	...
Value added in mining.....do..	1,384,425	80,929	93,617	<sup>2</sup> 195,762	334,954	<sup>2</sup> 183,209	<sup>3</sup> 244,864	<sup>3</sup> 126,441	<u>124,649</u>	(D)	...
Value of shipments and receipts.....\$1,000..	1,868,613	86,305	120,174	<sup>2</sup> 261,809	481,614	<sup>2</sup> 247,858	<sup>3</sup> 353,782	<sup>3</sup> 162,779	<u>154,292</u>	(D)	...
Capital expenditures.....do..	188,998	14,051	16,813	<sup>2</sup> 35,718	49,768	<sup>2</sup> 34,300	<sup>3</sup> 23,719	<sup>3</sup> 7,137	<u>7,492</u>	(D)	...
Number of establishments by division and State:											
New England, total.....	340	160	80	62	30	5	3	...	...	...	...
Maine.....	53	35	10	6	1	1	...	...	...	...	...
New Hampshire.....	38	22	9	4	3	...	...	...	...	...	...
Vermont.....	40	21	4	8	4	...	3	...	...	...	...
Massachusetts.....	111	43	35	21	10	2	...	...	...	...	...
Rhode Island.....	18	8	6	1	3	...	...	...	...	...	...
Connecticut.....	80	31	16	22	9	2	...	...	...	...	...
Middle Atlantic, total.....	789	309	145	160	125	30	17	3	...	...	...
New York.....	296	131	61	51	34	9	8	2	...	...	...
New Jersey.....	130	44	20	29	29	6	2	...	...	...	...
Pennsylvania.....	363	134	64	80	62	15	7	1	...	...	...
East North Central, total.....	1,696	774	319	343	194	37	23	5	1	...	...
Ohio.....	453	181	88	112	53	13	4	2	...	...	...
Indiana.....	277	119	41	70	44	2	1	...	...	...	...
Illinois.....	378	153	70	80	50	15	9	1	...	...	...
Michigan.....	305	181	53	38	19	3	8	2	1	...	...
Wisconsin.....	283	140	67	43	28	4	1	...	...	...	...
West North Central, total.....	1,175	572	245	193	147	15	3	...	...	...	...
Minnesota.....	200	99	43	32	21	4	1	...	...	...	...
Iowa.....	231	94	53	46	37	...	1	...	...	...	...
Missouri.....	318	133	74	59	43	8	1	...	...	...	...
North Dakota.....	33	21	5	6	1	...	...	...	...	...	...
South Dakota.....	80	54	11	5	8	2	...	...	...	...	...
Nebraska.....	146	83	30	21	12	...	...	...	...	...	...
Kansas.....	167	88	29	24	25	1	...	...	...	...	...
South Atlantic, total.....	900	329	131	143	190	62	35	9	1	...	...
Delaware.....	12	6	1	4	1	...	...	...	...	...	...
Maryland.....	75	22	10	19	17	3	4	...	...	...	...
District of Columbia.....	...	...	...	...	...	...	...	...	...	...	...
Virginia.....	135	25	21	26	49	11	2	1	...	...	...
West Virginia.....	58	23	10	6	12	5	1	1	...	...	...
North Carolina.....	226	127	25	24	35	11	3	1	...	...	...
South Carolina.....	62	23	8	11	9	8	3	...	...	...	...
Georgia.....	145	45	21	21	33	13	7	5	...	...	...
Florida.....	187	58	35	32	34	11	15	1	1	...	...
East South Central, total.....	501	137	68	151	119	22	4	...	...	...	...
Kentucky.....	162	35	23	54	43	6	1	...	...	...	...
Tennessee.....	201	51	30	62	50	6	2	...	...	...	...
Alabama.....	81	27	8	23	16	6	1	...	...	...	...
Mississippi.....	57	24	7	12	10	4	...	...	...	...	...
West South Central, total.....	567	225	85	98	109	28	19	2	1	...	...
Arkansas.....	79	39	13	14	8	2	3	...	...	...	...
Louisiana.....	95	30	4	23	24	6	6	2	...	...	...
Oklahoma.....	96	36	27	16	12	4	1	...	...	...	...
Texas.....	297	120	41	45	65	16	9	...	1	...	...
Mountain, total.....	588	323	114	83	34	21	7	3	3	...	...
Montana.....	57	34	13	4	3	1	2	...	...	...	...
Idaho.....	54	31	13	4	3	3	...	...	...	...	...
Wyoming.....	45	17	7	8	9	3	...	1	...	...	...
Colorado.....	139	76	30	24	5	4	...	...	...	...	...
New Mexico.....	73	36	13	11	6	1	1	2	3	...	...
Arizona.....	93	68	7	15	...	3	...	...	...	...	...
Utah.....	72	34	19	9	2	5	3	...	...	...	...
Nevada.....	55	27	12	8	6	1	1	...	...	...	...

See footnotes at end of table.



Table 4.—Selected Statistics for Nonmetallic Minerals Mining Establishments, Classified by Employment Size, for the United States, and Number of Nonmetallic Minerals Operations by Employment Size for Divisions, States, Alaska, and Hawaii: 1958—Continued

Item, division, and State	All establish- ments, total	Establishments with an average of—									
		0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
MINERAL INDUSTRIES—Continued											
Number of establishments by division and State—Continued											
Pacific, total.....	750	381	134	115	91	20	5	2	1	1	...
Washington.....	129	75	22	17	14	...	1	...	...	...	...
Oregon.....	126	73	26	17	8	2	...	...	...	...	...
California.....	495	233	86	81	69	18	4	2	1	1	...
Alaska.....	4	1	...	2	...	1	...	...	...	...	...
Hawaii.....	20	6	2	4	4	4	...	...	...	...	...
OPERATIONS INCLUDED IN MANUFACTURES											
Number of operations:											
United States, total.....	1,566	902	239	176	170	50	21	5	2	1	...
New England, total.....	99	50	13	17	8	7	2	1	...	1	...
Maine.....	13	7	1	...	2	3	...	...	...	...	...
New Hampshire.....	7	5	...	1	...	1	...	...	...	...	...
Vermont.....	26	7	4	6	3	3	2	...	...	1	...
Massachusetts.....	33	20	5	5	2	...	...	...	...	...	...
Rhode Island.....	4	1	1	1	1	...	...	1	...	...	...
Connecticut.....	16	10	2	4	...	...	...	...	...	...	...
Middle Atlantic, total.....	250	139	39	25	32	14	1	...	...	...	...
New York.....	79	38	19	9	10	3	...	...	...	...	...
New Jersey.....	15	12	1	...	1	1	...	...	...	...	...
Pennsylvania.....	156	89	19	16	21	10	1	...	...	...	...
East North Central, total.....	349	213	46	37	35	10	7	...	1	...	...
Ohio.....	163	104	21	15	16	5	2	...	...	...	...
Indiana.....	61	37	5	5	7	2	4	...	1	...	...
Illinois.....	52	29	11	7	4	1	...	...	...	...	...
Michigan.....	35	20	4	7	3	...	1	...	...	...	...
Wisconsin.....	38	23	5	3	5	2	...	...	...	...	...
West North Central, total.....	163	91	24	16	24	4	2	1	1	...	...
Minnesota.....	28	16	2	3	4	1	1	...	1	...	...
Iowa.....	42	30	5	3	3	1	...	...	...	...	...
Missouri.....	34	13	5	5	9	...	1	1	...	...	...
North Dakota.....	5	4	1	...	...	...	...	...	...	...	...
South Dakota.....	9	4	2	...	2	1	...	...	...	...	...
Nebraska.....	12	9	1	...	1	1	...	...	...	...	...
Kansas.....	33	15	8	5	5	...	...	...	...	...	...
South Atlantic, total.....	174	94	31	18	22	6	1	2	...	...	...
Delaware.....	3	3	...	...	...	...	...	...	...	...	...
Maryland.....	27	14	5	7	1	...	...	...	...	...	...
District of Columbia.....	2	2	...	...	...	...	...	...	...	...	...
Virginia.....	33	17	6	2	6	1	1	...	...	...	...
West Virginia.....	9	3	2	2	2	...	...	...	...	...	...
North Carolina.....	36	26	6	...	1	2	...	1	...	...	...
South Carolina.....	21	17	2	1	1	...	...	...	...	...	...
Georgia.....	29	7	6	4	9	2	...	1	...	...	...
Florida.....	14	5	4	2	2	1	...	...	...	...	...
East South Central, total.....	96	52	14	10	12	3	4	1	...	...	...
Kentucky.....	12	11	...	1	...	...	...	...	...	...	...
Tennessee.....	29	11	3	3	7	2	2	1	...	...	...
Alabama.....	41	19	9	5	5	1	2	...	...	...	...
Mississippi.....	14	11	2	1	...	...	...	...	...	...	...
West South Central, total.....	154	93	22	18	18	1	2	...	...	...	...
Arkansas.....	20	9	5	1	4	...	1	...	...	...	...
Louisiana.....	11	11	...	...	...	...	...	...	...	...	...
Oklahoma.....	25	17	2	1	5	...	...	...	...	...	...
Texas.....	98	56	15	16	9	1	1	...	...	...	...
Mountain, total.....	113	67	22	16	6	1	1	...	...	...	...
Montana.....	13	10	2	1	...	...	...	...	...	...	...
Idaho.....	13	10	2	1	...	...	...	...	...	...	...
Wyoming.....	12	9	2	1	...	...	...	...	...	...	...
Colorado.....	25	14	5	3	3	...	...	...	...	...	...
New Mexico.....	9	2	4	3	...	...	...	...	...	...	...
Arizona.....	18	10	3	2	1	1	1	...	...	...	...
Utah.....	18	11	3	4	...	...	...	...	...	...	...
Nevada.....	5	1	1	1	2	...	...	...	...	...	...
Pacific, total.....	168	103	28	19	13	4	1	...	...	...	...
Washington.....	39	26	6	5	2	...	...	...	...	...	...
Oregon.....	29	22	5	...	1	1	...	...	...	...	...
California.....	100	55	17	14	10	3	1	...	...	...	...
Alaska.....	4	3	1	...	...	...	...	...	...	...	...
Hawaii.....	4	2	1	1	...	...	...	...	...	...	...

<sup>1</sup>Includes figures for some separately reported central offices and related facilities. These were not distributed by employment size.

<sup>2</sup>Figures for "50-99 employees" exclude and those for "10-19 employees" include data for one establishment in Industry 1456—Feldspar.

<sup>3</sup>Figures for "250-499 employees" exclude and those for "100-249 employees" include data for one establishment in Industry 1481—Nonmetallic Stripping Services."





# Stone

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Industry Group 141, Dimension Stone, and Industry Group 142, Crushed and Broken Stone, Including Riprap. The separate industries and subindustries for which statistics are published in this report are as follows:

## S.I.C. Code and Title (1957 Edition)

- 1411—Dimension Stone
  - Dimension Limestone
  - Dimension Granite
  - Dimension Stone, N.E.C.
- 1421—Crushed and Broken Stone, Including Riprap
  - Crushed and Broken Limestone
  - Crushed and Broken Granite
  - Crushed and Broken Stone, N.E.C.

Industry 1411—Dimension Stone.—This industry represents establishments primarily engaged in mining or quarrying dimension stone. Also included are establishments primarily engaged in producing rough blocks and slabs. Establishments primarily engaged in mining or quarrying and shaping grindstones, pulpstones, millstones, burrstones, and sharpening stones are classified in Industry 1497; and those mining or quarrying dimension soapstone in Industry 1496. Establishments primarily engaged in dressing (shaping, polishing, or otherwise finishing) rough blocks and slabs are classified in Industry 3281, Cut Stone and Stone Products. Nepheline syenite operations are classified in Industry 1459.

Dimension Limestone Subindustry.—This subindustry represents establishments primarily engaged in mining or quarrying dimension limestone, including related rocks such as dolomite, travertine, and calcareous tufa.

Dimension Granite Subindustry.—This subindustry represents establishments primarily engaged in mining or quarrying dimension granite, including related rocks such as gneiss, syenite, diorite, and gabbro.

Dimension Stone, N.E.C. Subindustry.—This subindustry represents establishments primarily engaged in mining or quarrying dimension stone, not elsewhere classified, such as slate, marble, trap rock (basalt, diabase, and related rocks), sandstone and bluestone, mica schist, light-colored volcanic rocks, argillite, and greenstone.

Establishments classified in Industry 1411, Dimension Stone, as interpreted in the 1958 and 1954 minerals censuses, represent only quarries without dressing plants operated as part of the same establishment. This report, however, includes also related 1958 and 1954 Census of Manufactures figures for dimension stone quarries operated in conjunction with dressing plants. These quarrying and dressing establishments represent part of the manufacturing Industry 3281, Cut Stone and Stone Products. Thus, the dimension stone total figures in this report represent all dimension stone quarries and all dressing plants operated in conjunction with these quarries. Such figures for 1958 and 1954 are comparable with most of the statistics for years prior to 1954. Separate figures are shown for the two types of quarries throughout this report, quarries classified in the mineral industries being re-

ferred to as "Quarries only," whereas quarries and their associated dressing plants classified in manufacturing are referred to as "Quarries with dressing plants."

Industry 1421, Crushed and Broken Stone, Including Riprap.—This industry represents establishments primarily engaged in mining or quarrying crushed and broken stone. Quarries operated in conjunction with cement and lime plants are included in this industry when separate reports are available; but the stone crushing operations performed at the plant are not included. Nepheline syenite operations are classified in Industry 1459. Establishments primarily engaged in mining or preparing bituminous limestone and sandstone are classified in Industry 1494, Native Asphalt and Bitumens.

Crushed and Broken Limestone Subindustry.—This subindustry represents establishments primarily engaged in mining or quarrying crushed and broken limestone, including related rocks, such as dolomite, cement rock, marl, travertine, and calcareous tufa.

Crushed and Broken Granite Subindustry.—This subindustry represents establishments primarily engaged in mining or quarrying crushed and broken granite, including related rocks, such as gneiss, syenite, and diorite.

Crushed and Broken Stone, N.E.C. Subindustry.—This subindustry represents establishments primarily engaged in mining or quarrying crushed and broken stone, not elsewhere classified, such as slate (including slate granules), marble, trap rock (basalt, diabase, gabbro, and related rocks), sandstone (including quartzite and ganister), and various light-colored volcanic rocks, mica schist, and mixed boulders.

Establishments classified in Industry 1421, Crushed and Broken Stone, represent all separately operated quarries and crushing plants primarily producing crushed and broken stone. They do not include limestone, cement rock, and other stone quarries which are parts of establishments primarily manufacturing hydraulic cement, quicklime, hydrated lime, ready-mixed concrete, or bituminous concrete. Such establishments are classified in the manufacturing industries, principally in Industry 3241, Cement, Hydraulic and Industry 3274, Lime. However, selected departmental data were obtained for such quarry operations and statistics for them from the 1958 and 1954 Censuses of Manufactures are presented throughout this report under the designation, "Crushed stone quarries in manufactures."

Census figures for the Crushed and Broken Stone Industry exclude for 1958, as for previous years, data on production by Federal, State, and local governments. According to the Bureau of Mines, "noncommercial operations," principally of this type, produced about 9 percent of all crushed and broken stone in 1958.

The total value of shipments and receipts of dimension stone quarries in 1958 was \$89.5 million, of which rough and dressed dimension stone amounted to about \$84 million, and other products, purchases for resale without further processing, and receipts for services to about \$5.5 million. The value of shipments and receipts of quarries operated without dressing plants, the Dimension Stone Industry, was \$15.9 million, of which \$15.3 million repre-



sented rough dimension stone, the primary product of such establishments. Quarries with dressing plants, those classified in manufacturing, had products valued at \$73.6 million, shipping rough dimension stone valued at nearly \$7 million and dressed dimension stone valued at \$61.9.

Shipments and receipts were distributed among the dimension stone subindustries as follows: Dimension limestone quarries with shipments amounting to \$20.4 million, of which \$4.2 million represented shipments by quarries without dressing plants (the dimension limestone subindustry); Dimension granite quarries with shipments amounting to \$34.4 million, of which \$5.6 million was by quarries without dressing plants (the dimension granite subindustry); and Dimension stone, nec quarries with shipments amounting to \$34.6 million, of which \$6.1 million was by quarries without dressing plants (the dimension stone, nec subindustry).

The total value of shipments of the Crushed and Broken Stone Industry in 1958 was \$616 million, of which crushed and broken stone, the primary product of this industry, amounted to \$583 million, and secondary products, products purchased and resold without further processing, and receipts for services amounted to \$33 million. In addition for crushed stone quarries in manufactures, the value of stone shipped or quarried and used in the same establishment was \$139 million.

Shipments and receipts were distributed among the crushed and broken stone subindustries as follows: Crushed and broken limestone subindustry with shipments amounting to \$459 million and an additional \$137 million for stone shipped or used from limestone quarries in manufactures; Crushed and broken granite subindustry with shipments amounting to \$50 million; and Crushed and broken stone, nec subindustry with shipments amounting to \$107 million and an additional \$1.4 million for such stone shipped or used from stone, nec quarries in manufactures.

The figures given above represent the gross value of shipments and receipts and contain some duplication due to inclusion of the value of stone transferred from one establishment to another in the same industry or subindustry for dressing or crushing. The value of stone so transferred at dimension stone quarries was about \$3.5 million, and the value of crushed and broken stone so transferred was about \$2.2 million. Net shipments figures for quantity and value of stone which exclude this duplication are given in tables 1, 2, 3, and 6 of this report.

The general statistics (employment, payrolls, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the production of secondary products, and in the performance of contract work for others. This fact should be taken into account in comparing industry statistics (tables 1-4 and 7-12) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5 which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Comparability with Bureau of Mines Statistics.--The Bureau of the Census statistics on primary products of the

Dimension Stone Industry are, in general, comparable with product statistics for such stone published by the Bureau of Mines. The Census statistics for crushed and broken stone are less comparable to Mines statistics due primarily to the exclusion by the Bureau of the Census of the statistics on crushed and broken stone production by Federal, State, and local governments. The most nearly comparable statistics for stone from the two bureaus are shown in the table below. For crushed and broken stone, as indicated in this table, the Bureau of Mines shows separately figures for "commercial operations" and "government and contractor operations." Census figures include all of the first of these groups of establishments and some establishments in the second group, insofar as the latter represents contractors or subcontractors on Federal, State, or local government projects which were able to provide separate complete reports for their stone quarries.

Other reasons for differences in the product statistics are:

(1) The Bureau of the Census collects information on shipments (and some data on stone produced and used in the same establishment) and calculates net shipments whereas the Bureau of Mines obtains figures on stone sold or used.

(2) The Bureau of the Census excludes small establishments whose value of products and reported costs were below \$500. The Bureau of Mines includes all reports obtained regardless of size. However, the contribution to products of such establishments which Census excludes is usually small.

(3) Differences exist in coverage in certain areas for both collecting agencies.

(4) In some cases, a respondent reports his output of stone as one type of stone to the Bureau of the Census and as another to the Bureau of Mines.

(5) For dimension stone, the Bureau of the Census figures represent shipments of rough dimension stone from separately operated quarries as well as shipments of rough dimension stone and dressed dimension stone from quarries with associated dressing plants located at the quarry site. No figures are included in the Census tabulations in this report for shipments of dressed dimension stone from dressing plants not operated in conjunction with a quarry, even though such a dressing plant may be an integral part of a company engaged in quarrying and dressing stone. Bureau of Mines production data are compiled on the basis of quantities and values of sales of both rough blocks and finished products by primary producers. These Bureau of Mines figures are compiled on a company basis. For example, in the case of a stone company having three establishments, (a) a quarry with no dressing plant; (b) a quarry with a dressing plant; and (c) a separately operated dressing plant, the Census figures would include only the first two types of establishments, whereas the Bureau of Mines would compile its figures on output of stone for this company on the basis of the figures reported by all three types of establishments. Thus, the Bureau of Mines would show less rough dimension stone shipped for this company and more dressed dimension stone shipped than would be shown by the Bureau of the Census. There is a considerable tonnage loss in fabricating dressed stone from rough blocks. Accordingly, it would be expected that the aggregate Bureau of Mines tonnage would be less than that of the Bureau of the Census even though the operations of the same companies were covered by both agencies.



QUANTITY AND VALUE OF STONE AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU  
OF MINES FOR THE UNITED STATES: 1958

(Includes Alaska and Hawaii)

Product	Bureau of the Census statistics			Bureau of Mines statistics	
	Production (1,000 short tons)	Shipments including interplant transfers		Sold or used by producers	
		Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
Dimension stone, total.....	(NA)	2,957	80,559	2,522	80,254
Rough (net).....	(NA)	1,662	18,613	<sup>1</sup> 1,220	<sup>1</sup> 18,152
Dressed.....	(NA)	1,295	61,946	<sup>1</sup> 1,302	<sup>1</sup> 62,102
Limestone, total.....	(NA)	1,129	18,331	979	18,757
Rough (net).....	(NA)	705	7,009	542	4,239
Dressed.....	(NA)	424	11,322	437	14,518
Granite, total.....	(NA)	807	29,827	621	24,059
Rough (net).....	(NA)	333	3,711	281	9,419
Dressed.....	(NA)	474	26,116	340	14,640
Stone, nec, total.....	(NA)	1,021	32,401	922	37,438
Rough (net).....	(NA)	624	7,893	<sup>1</sup> 397	<sup>1</sup> 4,494
Dressed.....	(NA)	397	24,508	<sup>1</sup> 525	<sup>1</sup> 32,944
Crushed and broken stone, total.....	(NA)	(NA)	(NA)	533,401	746,431
Excluding Federal, State, and local government operations.....	<sup>2</sup> 484,592	405,240	616,649	(NA)	(NA)
Commercial.....	(NA)	(NA)	(NA)	483,634	694,801
Government and contractor.....	(NA)	(NA)	(NA)	49,767	51,630
Limestone <sup>3</sup> .....	388,360	309,491	459,564	390,468	516,765
Granite <sup>3</sup> .....	<sup>2</sup> 33,812	33,812	49,961	31,337	45,432
Stone, nec <sup>3</sup> .....	<sup>2</sup> 62,420	61,937	107,124	111,596	184,234

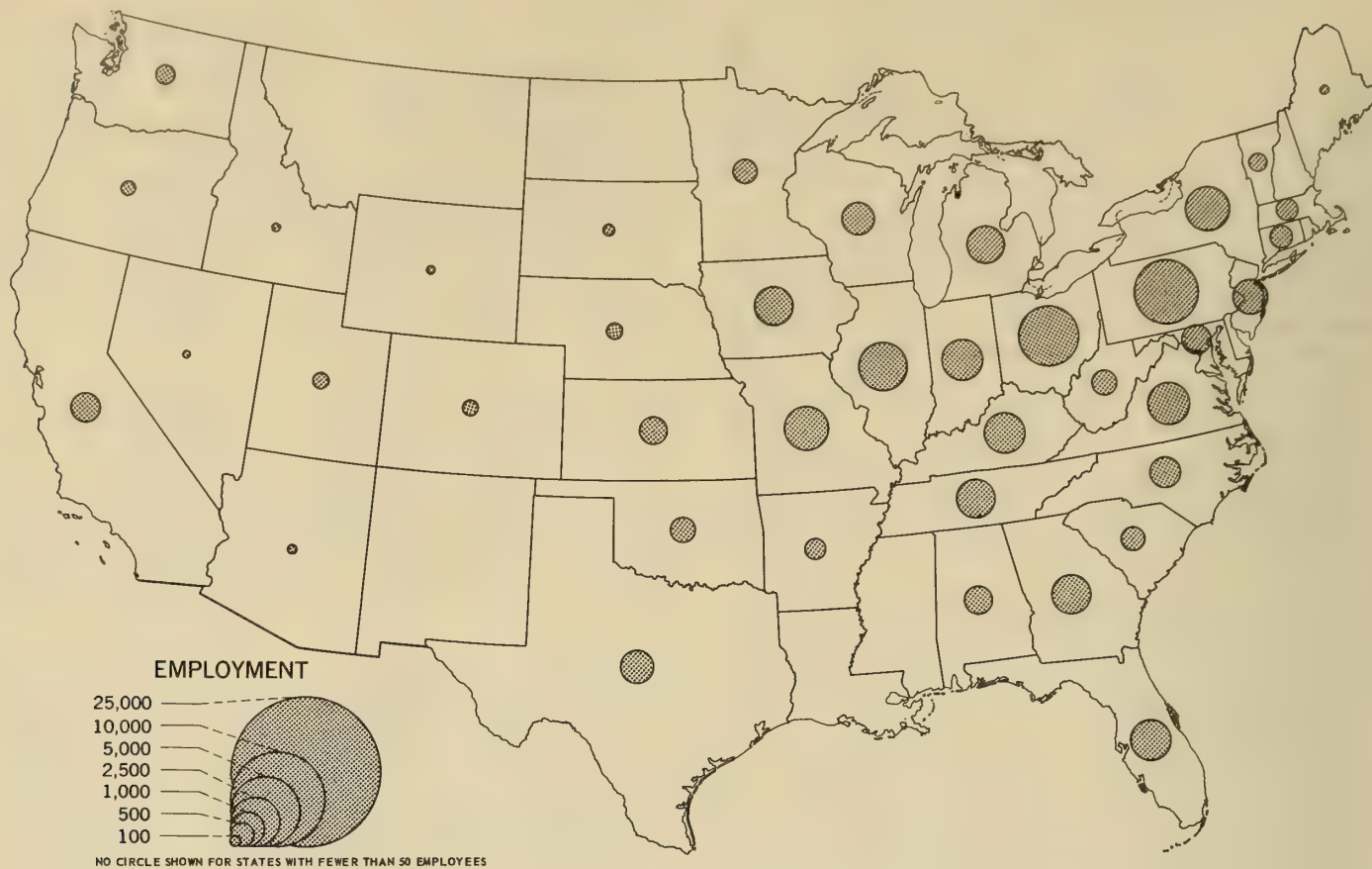
<sup>1</sup> Figures for rough monumental marble are included with those for dressed monumental marble.

<sup>2</sup> Represents stone shipments plus stone mined and used in the same establishment in making cement, lime, and other manufactured products. Figures for a small tonnage of granite mined and used in the same establishment are excluded from the Granite figures and included with those for Stone, nec.

<sup>3</sup> Census figures exclude operations by Federal, State, and local governments. Bureau of Mines figures represent totals for all stone sold or used by commercial, government, and contractor operations. For Alaska and Hawaii, Census figures for Granite are included with those for Limestone. For Hawaii, Census shipments figures include the quantity and estimated value of limestone mined and used in the same establishment in making lime.

# STONE

## Distribution of Employment by State:1958



## Employment : 1840-1958

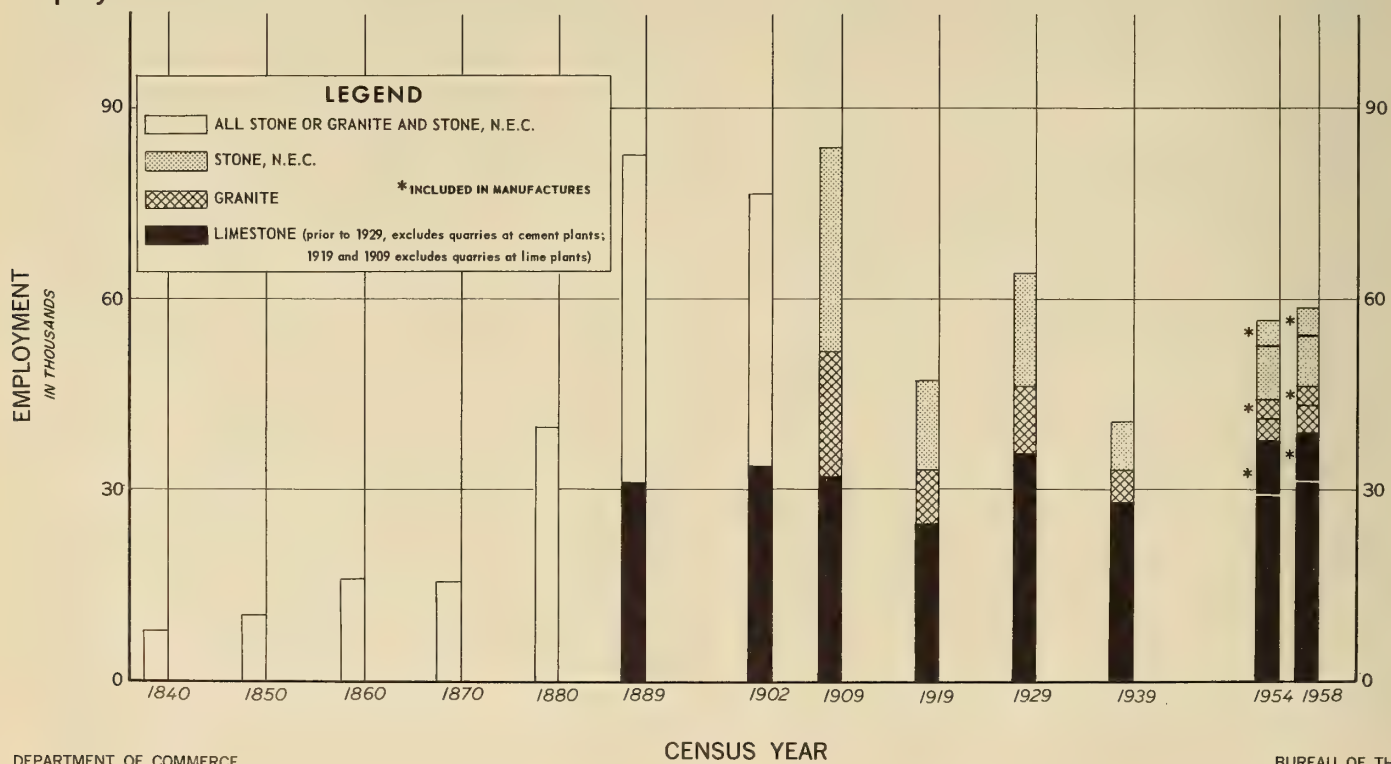




Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanations of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. I)

Industry, industry code, and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, minerals received for preparation, fuels, purchased electricity, and contract work (\$1,000)	Cost of purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Value of net shipments <sup>1</sup> and receipts <sup>1</sup> (\$1,000)	Quantity of primary products <sup>2</sup> (1,000 short tons)	Capital expenditures (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
ALL STONE QUARRIES:															
1958.....	<sup>r</sup> 2,184	2,733	860	58,635	256,453	50,671	106,273	207,175	627,566	233,046	<sup>4</sup> 54,083	842,270	824,484	479,163	<sup>4</sup> 72,425
1954 <sup>5</sup> .....	<sup>3</sup> 2,155	2,721	771	56,083	209,115	50,854	111,412	181,513	497,227	167,217	<sup>4</sup> 47,409	663,988	654,632	366,959	<sup>4</sup> 47,865
1939 <sup>6</sup> .....	1,526	<sup>7</sup> 1,934	(NA)	<sup>8</sup> 40,522	<sup>8</sup> 44,654	<sup>8</sup> 37,358	<sup>8</sup> 74,810	<sup>8</sup> 37,660	(NA)	<sup>8</sup> 28,172	(NA)	(NA)	124,948	133,992	(NA)
1929 <sup>10</sup> .....	(NA)	2,319	(NA)	63,808	85,999	58,268	(NA)	71,212	155,497	<sup>9</sup> 45,143	8,495	(NA)	200,640	179,088	(NA)
Excluding crushed and broken stone quarries in manufacturing establishments:															
1929 <sup>10</sup> .....	(NA)	2,081	(NA)	(NA)	(NA)	48,235	(NA)	58,582	(NA)	<sup>9</sup> 36,299	(NA)	(NA)	169,608	121,444	(NA)
1919 <sup>10</sup> .....	(NA)	1,844	(NA)	46,988	52,900	43,152	(NA)	45,699	75,055	27,002	(NA)	102,057	102,057	67,907	(NA)
1909.....	<sup>4</sup> 0,034	<sup>4</sup> 0,036	(NA)	83,748	44,350	79,366	(NA)	39,807	63,366	12,857	(NA)	76,223	76,223	(NA)	(NA)
1902 <sup>11</sup> .....	<sup>5</sup> 4,475	<sup>7</sup> 5,770	(NA)	76,472	42,025	<sup>12</sup> 71,185	(NA)	37,530	59,728	<sup>10</sup> 10,778	(NA)	(NA)	70,506	(NA)	(NA)
1889 <sup>11</sup> .....	888	<sup>7</sup> 4,163	(NA)	82,374	30,556	77,698	(NA)	(NA)	45,113	<sup>9</sup> 7,923	(NA)	(NA)	53,036	(NA)	(NA)
1880.....	(NA)	<sup>7</sup> 1,525	(NA)	39,723	(NA)	(NA)	(NA)	(NA)	(NA)	<sup>13</sup> 192	(NA)	(NA)	18,356	(NA)	(NA)
1870.....	(NA)	1,120	(NA)	15,117	6,580	(NA)	(NA)	(NA)	10,950	<sup>9</sup> 1,136	(NA)	(NA)	12,086	(NA)	(NA)
1860 <sup>14</sup> .....	(NA)	1,828	(NA)	15,749	5,791	(NA)	(NA)	(NA)	11,121	5,410	(NA)	16,531	(NA)	(NA)	(NA)
1850 <sup>14</sup> .....	(NA)	1,149	(NA)	10,081	3,453	(NA)	(NA)	(NA)	5,732	2,477	(NA)	8,209	(NA)	(NA)	(NA)
1840.....	(NA)	(NA)	(NA)	7,859	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	3,696	(NA)	(NA)	(NA)
All limestone quarries:															
1958.....	<sup>r</sup> 1,372	1,780	608	38,939	176,962	33,602	71,113	142,957	466,122	166,322	<sup>4</sup> 39,740	616,773	603,771	384,778	<sup>4</sup> 55,411
1954.....	<sup>3</sup> 1,426	1,796	543	37,254	141,049	33,782	74,055	123,066	351,548	113,511	<sup>4</sup> 33,484	465,798	<sup>15</sup> 460,313	300,995	<sup>4</sup> 32,745
1939.....	965	<sup>7</sup> 1,256	(NA)	<sup>8</sup> 27,748	<sup>8</sup> 30,806	<sup>8</sup> 25,619	<sup>8</sup> 51,101	<sup>8</sup> 26,167	(NA)	<sup>8</sup> 19,550	(NA)	(NA)	82,211	109,726	(NA)
1929 <sup>10</sup> .....	(NA)	1,167	(NA)	35,293	47,078	32,300	(NA)	39,188	87,702	<sup>9</sup> 29,556	5,669	(NA)	117,258	144,252	(NA)
Excluding crushed and broken limestone quarries in manufacturing establishments:															
1929 <sup>10</sup> .....	(NA)	929	(NA)	(NA)	(NA)	22,267	(NA)	26,558	(NA)	<sup>9</sup> 20,712	(NA)	(NA)	86,226	86,608	(NA)
1919 <sup>10</sup> .....	(NA)	895	(NA)	24,072	27,653	22,069	(NA)	23,926	37,134	15,810	(NA)	52,944	52,944	49,715	(NA)
1909.....	1,674	<sup>1</sup> 6,74	(NA)	32,037	15,826	30,331	(NA)	14,105	24,321	5,511	(NA)	29,832	29,832	(NA)	(NA)
1902 <sup>11</sup> .....	<sup>3</sup> 1,37	<sup>7</sup> 3,246	(NA)	33,778	16,595	<sup>12</sup> 31,547	(NA)	14,751	25,002	<sup>9</sup> 5,440	(NA)	(NA)	30,442	(NA)	(NA)
1889 <sup>11</sup> .....	(NA)	<sup>7</sup> 1,954	(NA)	30,644	10,122	28,741	(NA)	8,980	14,868	<sup>9</sup> 4,227	(NA)	(NA)	19,095	(NA)	(NA)
All granite quarries:															
1958.....	<sup>r</sup> 201	258	106	7,206	28,598	6,371	13,173	23,416	57,808	25,197	6,420	84,004	80,821	34,494	5,421
1954.....	214	247	82	6,583	22,686	6,030	13,100	19,485	43,359	16,554	<sup>4</sup> 3,867	59,728	(NA)	22,627	<sup>4</sup> 0,052
1939.....	199	<sup>7</sup> 242	(NA)	<sup>8</sup> 4,801	<sup>8</sup> 5,093	<sup>8</sup> 4,417	<sup>8</sup> 8,841	<sup>8</sup> 4,156	(NA)	<sup>8</sup> 3,053	(NA)	(NA)	15,132	7,422	(NA)
1929 <sup>10</sup> .....	(NA)	406	(NA)	10,920	15,242	10,037	(NA)	12,640	24,961	<sup>9</sup> 5,420	656	(NA)	30,381	8,364	(NA)
1919.....	(NA)	358	(NA)	8,623	9,784	8,049	(NA)	8,588	14,472	3,807	(NA)	18,279	18,279	4,420	(NA)
1909.....	710	710	(NA)	19,669	12,185	18,748	(NA)	11,115	16,252	2,746	(NA)	18,998	18,998	(NA)	(NA)
All stone quarries, nec:															
1958.....	<sup>r</sup> 3624	695	146	12,490	50,893	10,698	21,987	40,802	105,636	41,527	<sup>4</sup> 7,923	143,493	139,892	58,930	<sup>4</sup> 11,593
1954 <sup>5</sup> .....	<sup>3</sup> 566	678	146	12,246	45,380	11,042	24,257	38,962	102,320	37,152	<sup>4</sup> 10,058	138,462	(NA)	42,609	<sup>4</sup> 11,068
1939.....	<sup>3</sup> 379	<sup>7</sup> 431	(NA)	<sup>8</sup> 7,896	<sup>8</sup> 8,676	<sup>8</sup> 7,251	<sup>8</sup> 14,722	<sup>8</sup> 7,268	(NA)	<sup>8</sup> 5,523	(NA)	(NA)	27,605	16,479	(NA)
1929 <sup>10</sup> .....	(NA)	746	(NA)	17,595	23,679	15,931	(NA)	19,384	42,834	<sup>9</sup> 10,167	2,170	(NA)	53,001	26,472	(NA)
1919 <sup>10</sup> .....	(NA)	591	(NA)	14,293	15,463	13,034	(NA)	13,185	23,449	7,385	(NA)	30,834	30,834	13,772	(NA)
1909.....	1,650	1,652	(NA)	32,042	16,339	30,287	(NA)	14,587	22,793	4,600	(NA)	27,393	27,393	(NA)	(NA)
Dimension stone quarries, total:															
1958.....	<sup>r</sup> 504	557	119	12,250	44,911	10,825	20,679	36,768	67,131	23,190	2,845	89,461	83,446	2,818	3,705
1954.....	523	555	115	12,325	40,227	11,389	23,155	35,364	61,774	17,321	2,664	78,903	<sup>15</sup> 76,282	2,927	2,856
1929.....	(NA)	912	(NA)	(NA)	(NA)	22,651	(NA)	27,695	55,496	9,839	(NA)	(NA)	65,335	<sup>16</sup> 17,149	(NA)
1411--Quarries only (dimension stone industry):															
1958.....	306	335	26	2,306	7,121	2,055	3,690	6,067	13,076	3,458	531	15,864	15,719	1,234	1,201
1954.....	322	351	46	3,224	8,625	3,068	5,893	7,938	15,155	3,846	891	18,945	<sup>15</sup> 18,418	1,269	947
1939 <sup>6</sup> .....	154	<sup>7</sup> 184	(NA)	2,890	3,007	2,725	(NA)	2,659	5,283	1,073	(NA)	(NA)	6,356	(NA)	(NA)
Quarries with dressing plants (included in manufactures):															
1958.....	208	222	93	9,944	37,790	8,770	16,989	30,701	54,055	19,732	2,314	73,597	67,727	1,584	2,504
1954.....	201	204	69	9,101	31,602	8,321	17,262	27,426	46,619	13,475	1,773	59,958	<sup>15</sup> 57,864	1,426	1,909
Dimension limestone quarries, total:															
1958.....	120	124	28	2,631	10,739	2,330	4,201	8,837	16,386	4,262	846	20,417	19,592	1,053	1,077
1954.....	103	106	29	2,850	10,359	2,693	5,391	9,479	16,686	3,717	862	20,493	<sup>15</sup> 20,062	1,069	772
1929.....	(NA)	287	(NA)	(NA)	(NA)	5,824	(NA)	7,121	16,290	3,028	(NA)	(NA)	19,318	<sup>16</sup> 10,973	(NA)
Quarries only (dimension limestone subindustry):															
1958.....	65	68	8	583	2,120	491	879	1,592	3,741	641	294	4,174	4,174	341	502
1954.....	63	65	11	500	1,556	472	872	1,429	2,942	779	158	3,754	3,398	455	125
1939.....	33	<sup>7</sup> 40	(NA)	672	721	617	(NA)	632	1,368	173	(NA)	(NA)	1,541	(NA)	(NA)

See footnotes at end of table.

Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

Industry, industry code, and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, minerals received for preparation, fuels, purchased electricity, and contract work (\$1,000)	Cost of purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Value of net shipments and receipts <sup>1</sup> (\$1,000)	Quantity of primary products <sup>2</sup> (1,000 short tons)	Capital expenditures (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
ALL STONE QUARRIES--Continued															
Dimension stone quarries, total--Continued															
Dimension limestone--Con.															
Quarries with dressing plants (included in manufactures):															
1958.....	55	56	20	2,048	8,619	1,839	3,322	7,245	12,645	3,621	552	16,243	15,418	712	575
1954.....	40	41	18	2,350	8,803	2,221	4,519	8,050	13,744	2,938	704	16,739	<sup>15</sup> 16,664	614	647
Dimension granite quarries, total:															
1958.....	<sup>1</sup> 114	137	44	3,897	15,623	3,465	6,731	12,645	24,315	10,229	582	34,408	31,430	816	718
1954.....	136	143	42	4,009	13,701	3,662	7,445	11,806	20,976	7,561	826	28,498	27,733	669	865
1929.....	(NA)	320	(NA)	(NA)	(NA)	7,971	(NA)	10,478	20,090	3,540	(NA)	(NA)	23,630	<sup>16</sup> 2,413	(NA)
Quarries only (dimension granite subindustry):															
1958.....	63	76	9	740	2,288	681	1,277	2,046	4,085	1,620	89	5,577	5,517	386	217
1954.....	79	86	15	967	2,639	917	1,769	2,404	4,590	1,167	226	5,738	(D)	289	245
1939 <sup>6</sup> .....	77	<sup>7</sup> 93	(NA)	1,238	1,479	1,163	(NA)	1,297	2,674	594	(NA)	3,268	3,268	(NA)	(NA)
Quarries with dressing plants (included in manufactures):															
1958.....	56	61	35	3,157	13,335	2,784	5,454	10,599	20,230	8,609	493	28,831	25,913	430	501
1954.....	57	57	27	3,042	11,062	2,745	5,676	9,402	16,386	6,394	600	22,760	21,995	380	620
Dimension stone quarries, nec, total:															
1958.....	<sup>2</sup> 272	296	47	5,722	18,549	5,030	9,747	15,286	26,430	8,699	1,417	34,636	32,424	949	1,910
1954.....	284	306	44	5,466	16,167	5,034	10,319	14,079	24,112	6,043	976	29,912	28,487	957	1,219
1929.....	(NA)	305	(NA)	(NA)	(NA)	8,856	(NA)	10,096	19,116	3,271	(NA)	(NA)	22,387	<sup>16</sup> 3,763	577
Quarries only (dimension stone quarries, nec subindustry):															
1958.....	178	191	9	983	2,713	883	1,534	2,429	5,250	1,197	148	6,113	6,028	507	482
1954.....	180	200	20	1,757	4,430	1,679	3,252	4,105	7,623	1,900	507	9,453	(NA)	525	577
1939.....	44	51	(NA)	980	807	945	(NA)	730	1,241	306	(NA)	(NA)	1,547	(NA)	(NA)
Quarries with dressing plants (included in manufactures):															
1958.....	99	105	38	4,739	15,836	4,147	8,213	12,857	21,180	7,502	1,269	28,523	26,396	442	1,428
1954.....	104	106	24	3,709	11,737	3,355	7,067	9,974	16,489	4,143	469	20,459	19,205	432	642
Crushed and broken stone quarries, total:															
1958.....	<sup>1</sup> 1,680	2,176	741	46,385	211,542	39,846	85,594	170,407	560,435	209,856	(NA)	752,809	741,038	476,255	(NA)
1954 <sup>5</sup> .....	<sup>2</sup> 1,683	2,166	656	43,758	168,888	39,465	88,257	146,149	435,453	149,896	(NA)	585,085	578,350	364,032	(NA)
1939 <sup>6</sup> .....	1,186	<sup>7</sup> 1,536	(NA)	33,707	37,655	30,937	62,366	31,492	75,886	<sup>9</sup> 25,695	(NA)	(NA)	101,581	130,428	(NA)
1929.....	(NA)	1,437	(NA)	(NA)	(NA)	35,617	(NA)	43,517	100,001	<sup>9</sup> 35,304	(NA)	(NA)	135,305	161,939	(NA)
1421--Crushed and broken stone industry:															
1958.....	1,597	1,957	644	41,404	188,401	34,865	75,632	147,266	445,788	187,770	51,238	616,076	602,305	385,898	<sup>4</sup> 68,720
1954 <sup>5</sup> .....	1,522	1,911	529	37,471	145,472	33,178	75,680	122,733	338,418	128,084	44,745	466,238	458,953	282,875	45,009
1939 <sup>6</sup> .....	989	1,260	(NA)	26,575	29,213	24,110	(NA)	23,653	59,358	20,248	(NA)	(NA)	79,606	90,686	(NA)
1929.....	(NA)	1,269	(NA)	(NA)	(NA)	25,584	(NA)	30,887	(NA)	26,245	(NA)	(NA)	104,273	104,294	(NA)
Quarries in manufacturing establishments:															
1958.....	111	219	97	<sup>17</sup> 4,981	<sup>17</sup> 23,141	<sup>17</sup> 4,981	9,962	23,141	114,647	22,086	(NA)	<sup>18</sup> 136,733	138,733	90,357	(NA)
1954.....	<sup>3</sup> 161	255	127	<sup>17</sup> 6,287	<sup>17</sup> 23,416	<sup>17</sup> 6,287	12,577	23,416	97,035	21,812	(NA)	<sup>18</sup> 118,847	118,847	81,157	(NA)
1939.....	197	<sup>7</sup> 276	(NA)	7,132	8,442	6,827	(NA)	7,839	16,528	5,447	(NA)	(NA)	21,975	39,278	(NA)
1929.....	(NA)	238	(NA)	(NA)	(NA)	10,033	(NA)	12,630	(NA)	8,425	(NA)	(NA)	31,032	57,645	(NA)
Crushed and broken limestone quarries, total:															
1958.....	<sup>1</sup> 1,252	1,656	581	36,308	166,223	31,272	66,912	134,120	449,736	162,060	(NA)	596,356	584,179	383,265	(NA)
1954.....	<sup>2</sup> 1,323	1,690	514	34,404	130,690	31,089	68,664	113,587	334,862	109,794	(NA)	445,305	440,251	299,926	(NA)
1939 <sup>6</sup> .....	913	<sup>7</sup> 1,194	(NA)	26,513	29,356	24,482	48,901	24,903	57,960	19,187	(NA)	(NA)	77,147	108,400	(NA)
1929.....	(NA)	980	(NA)	(NA)	(NA)	26,476	(NA)	32,067	71,412	26,528	(NA)	(NA)	97,940	133,279	(NA)
Crushed and broken limestone subindustry:															
1958.....	1,176	1,458	484	31,408	143,358	26,372	57,112	111,255	334,368	140,109	38,894	459,037	446,860	293,633	54,334
1954.....	1,174	1,447	388	28,240	107,818	24,925	56,335	90,715	239,604	88,504	32,622	328,757	323,703	220,233	31,973
1939 <sup>6</sup> .....	716	<sup>7</sup> 918	(NA)	19,381	20,914	17,655	(NA)	17,064	41,432	13,740	(NA)	(NA)	55,172	69,124	(NA)
1929.....	(NA)	742	(NA)	(NA)	(NA)	16,443	(NA)	19,437	(NA)	17,684	(NA)	(NA)	66,908	75,634	(NA)

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

Industry, industry code, and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, minerals received for preparation, fuels, purchased electricity, and contract work	Cost of purchased machinery installed	Value of shipments and receipts	Value of net shipments and receipts <sup>1</sup>	Quantity of primary products <sup>2</sup>	Capital expenditures
		Total	With 20 or more employees	Number	Payroll	Number	Man-hours	Wages							

NA Not available.

<sup>1</sup>Revised.<sup>2</sup>For 1939 and earlier years, represents value of production and other receipts.

<sup>3</sup>Represents the product indicated by the name of the industry or subindustry (Industry group and industry totals for all stone therefore exceed the sum of the totals for the subindustries.) For 1958 and 1954, for the mineral industries and for dimension stone quarries in manufactures, represents net shipments (gross shipments less stone received for dressing or crushing). For crushed and broken stone quarries in manufacturing establishments, represents gross shipments of stone plus production of stone for use in the same establishment in the manufacture of cement, lime, or other manufactured products. For 1939 and earlier years, represents net production.

<sup>4</sup>Represents the sum of figures shown for the separate industries or subindustries and probably includes some duplication due to the same company operating in more than one industry or subindustry.

<sup>5</sup>Excludes figures for crushed and broken stone quarries in manufacturing establishments.

<sup>6</sup>Revised to include figures for establishments primarily engaged in producing "Quartz." Such establishments had been included in the Natural Abrasives, Except Sand, Industry for 1954 only.

<sup>7</sup>The total for "All stone quarries" includes data for 5 nonproducing operations. Except for number of establishments, figures by kind of stone exclude data for these establishments. The number of quarries of this type reported were: dimension granite, 2; crushed and broken limestone, 2; and crushed and broken stone, nec, 1.

<sup>8</sup>Represents number of quarries.

<sup>9</sup>Excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing stone at such operations was approximately \$1,555 thousand for plants at limestone quarries, \$2,266 thousand for plants at granite quarries, and \$4,102 thousand for plants at stone quarries, nec.

<sup>10</sup>Excludes the cost of stone received for preparation.

<sup>11</sup>Excludes data for nonproducing operations as follows: for 1929, limestone, 1 establishment; granite, 2 establishments; and stone, nec, 9 establishments; for 1919, limestone, 1 establishment; and stone, nec, 2 establishments.

<sup>12</sup>Includes lime plants and their associated quarries. In 1902, the value of lime produced at establishments including a quarry was \$9,336 thousand.

<sup>13</sup>Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

<sup>14</sup>Represents cost of explosives.<sup>15</sup>Probably includes data for separately operated stone dressing plants.

<sup>16</sup>Includes a portion of the products purchased for resale without further processing, amounting to less than \$1,350 thousand for all limestone quarries; to less than \$900 thousand for all dimension stone quarries; to less than \$200 thousand for all dimension stone quarries only; to less than \$800 thousand for all dimension stone quarries with dressing plants.

<sup>17</sup>Includes crushed and broken stone produced as a secondary product at dimension stone quarries.

<sup>18</sup>Number of production and development workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are shown for production and development workers and for all employees.

<sup>19</sup>Includes the estimated value of crushed or broken stone produced and used in the same establishment in the manufacture of cement, lime, and other manufactured products.

<sup>20</sup>Figures for one granite quarry in a manufacturing establishment are included with the figures for such crushed and broken stone, nec, quarries.<sup>21</sup>Includes data for 3 mining operations in manufacturing establishments.

Table 2.—General Statistics by Regions, States, and Type of Operation: 1958

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries by State see table 2 of the corresponding chapter of 1954 Census of Mineral Industries, Vol. I)

Industry code, industry, region, division, and type of operation <sup>1</sup>	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of net shipments of primary products <sup>2</sup> (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
ALL DIMENSION STONE QUARRIES														
Dimension stone quarries, total.....	557	119	12,250	44,911	10,825	20,679	36,768	67,131	26,035	89,461	2,818	3,705	12,325	61,774
1411—Quarries only (dimension stone industry).....	335	26	2,306	7,121	2,055	3,690	6,067	13,076	3,989	15,864	1,234	1,201	3,224	15,155
Quarries with dressing plants.....	222	93	9,944	37,790	8,770	16,989	30,701	54,055	22,046	73,597	1,584	2,504	9,101	46,619
Division and State														
New England, total.....	54	18	2,831	11,771	2,393	4,914	9,236	14,924	5,749	19,872	525	801	2,268	12,806
Quarries only.....	17	1	204	803	186	362	694	1,037	380	1,315	136	102	2,268	12,806
Quarries with dressing plants.....	37	17	2,627	10,968	2,207	4,552	8,542	13,887	5,369	18,557	389	699		
Maine.....	5	4	217	729	202	411	655	806	392	1,170	37	28	317	1,494
Vermont, total.....	27	10	1,963	7,547	1,648	3,414	6,034	9,754	3,537	12,672	337	619	1,132	6,842
Quarries only.....	6	1	185	741	168	322	635	868	358	1,157	127	69	411	1,930
Quarries with dressing plants.....	21	9	1,778	6,806	1,480	3,092	5,399	8,886	3,179	11,515	210	550	721	4,912
Middle Atlantic.....	108	16	1,091	3,802	987	1,874	3,246	6,002	2,001	7,614	403	389	1,248	5,827
New York:														
Quarries only.....	14	...	69	228	65	133	216	473	58	515	54	16	55	380
Pennsylvania, total.....	77	13	821	2,983	752	1,430	2,547	4,237	1,154	5,183	302	208	958	4,187
Quarries only.....	46	2	196	636	178	318	553	1,088	291	1,291	168	88	203	909
Quarries with dressing plants.....	31	11	625	2,347	574	1,112	1,994	3,149	863	3,892	134	120	755	3,278
East North Central.....	96	25	2,573	10,446	2,309	4,146	8,751	15,947	4,753	19,707	931	993	3,208	18,551
Ohio.....	14	2	331	1,112	304	558	995	1,726	510	2,202	63	34	802	4,166
Indiana, total.....	29	16	1,767	7,494	1,580	2,811	6,157	11,399	2,824	13,487	743	736	1,912	11,748
Quarries only.....	17	7	398	1,705	346	657	1,283	2,951	658	3,335	231	274	272	1,866
Quarries with dressing plants.....	12	9	1,369	5,789	1,234	2,154	4,874	8,448	2,166	10,152	512	462	1,640	9,882
Wisconsin, total.....	38	7	399	1,653	355	664	1,426	2,419	1,306	3,518	96	207	461	2,435
Quarries only.....	20	1	93	269	85	147	235	524	202	654	39	72	199	1,101
Quarries with dressing plants.....	18	6	306	1,384	270	517	1,191	1,895	1,104	2,864	57	135	262	1,334
West North Central.....	54	13	1,692	6,988	1,479	3,122	5,446	10,850	5,633	16,239	189	244	1,487	7,480
Minnesota, total.....	22	6	972	4,332	844	1,841	3,335	6,708	3,034	9,689	75	53	804	3,997
Quarries only.....	15	...	88	191	72	130	170	402	238	623	21	17	50	212
Quarries with dressing plants.....	7	6	884	4,141	772	1,711	3,165	6,306	2,796	9,066	54	36	754	3,785
Missouri, total.....	13	2	464	1,726	401	852	1,324	2,457	1,714	4,067	37	104	416	1,918
Quarries only.....	9	...	54	175	42	79	113	176	50	219	11	7	416	1,918
Quarries with dressing plants.....	4	2	410	1,551	359	773	1,211	2,281	1,664	3,848	26	97		
South Dakota.....	6	3	152	624	141	293	521	1,235	618	1,798	15	55	194	1,192
Quarries with dressing plants.....	3	2	123	537	113	238	436	816	550	1,312	11	54	63	286
South Atlantic, total.....	68	23	1,978	5,656	1,763	3,200	4,705	8,302	3,315	11,114	370	503	1,877	7,493
Quarries only.....	41	6	429	1,059	379	638	934	1,809	753	2,458	201	104	1,877	7,493
Quarries with dressing plants.....	27	17	1,549	4,597	1,384	2,562	3,771	6,493	2,562	8,656	169	399		

See footnotes at end of table.



Table 2.—General Statistics by Regions, States, and Type of Operation: 1958—Continued

Industry code, industry, region, division, and type of operation <sup>1</sup>	1958											1954		
	Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of net shipments of primary products <sup>2</sup>  (1,000 short tons)	Capital expendi- tures  (\$1,000)	All em- ploy- ees, number	Value added in mining  (\$1,000)
	Total	With 20 or more em- ploy- ees	Number	Payroll  (\$1,000)	Number	Man- hours  (1,000)	Wages  (\$1,000)							
ALL DIMENSION STONE QUARRIES—Continued														
Division and State—Con.														
South Atlantic—Continued														
Maryland.....	9	...	75	201	59	85	158	286	72	347	30	11	63	233
North Carolina.....	11	4	495	1,427	439	800	1,188	2,182	736	2,839	89	79	387	1,511
Quarries with dressing plants.....	6	4	481	1,397	427	786	1,161	2,123	731	2,779	76	75	338	1,369
Georgia, total.....	34	15	1,106	3,269	1,002	1,855	2,749	4,751	2,270	6,665	223	356	1,071	4,516
Quarries only.....	23	4	266	664	250	429	624	1,147	611	1,710	139	48	366	1,630
Quarries with dressing plants.....	11	11	840	2,605	752	1,426	2,125	3,604	1,659	4,955	84	308	705	2,886
East South Central, total..	45	13	1,277	3,622	1,178	2,192	3,125	6,076	1,985	7,657	147	404	1,440	5,745
Quarries only.....	33	5	304	727	281	459	671	1,306	411	1,477	80	240	1,440	5,745
Quarries with dressing plants.....	12	8	973	2,895	897	1,733	2,454	4,770	1,574	6,180	67	164		
Tennessee.....	36	11	997	2,668	924	1,684	2,312	4,172	1,416	5,237	125	351	1,024	3,851
Alabama.....	6	2	276	944	251	505	805	1,867	566	2,396	19	37	409	1,874
West South Central, total..	42	9	518	1,536	455	745	1,293	2,678	1,690	4,276	122	92	472	2,072
Quarries only.....	27	3	188	448	161	284	384	963	288	1,186	105	65	472	2,072
Quarries with dressing plants.....	15	6	330	1,088	294	461	909	1,715	1,402	3,090	17	27		
Arkansas.....	20	2	142	268	121	168	225	465	182	605	50	42	92	303
Quarries only.....	15	...	71	132	58	90	110	296	106	362	45	40	92	303
Quarries with dressing plants.....	5	2	71	136	63	78	115	169	76	243	5	2		
Oklahoma.....	9	2	97	264	92	157	256	447	207	633	7	21	69	295
Quarries with dressing plants.....	5	2	80	221	76	133	213	336	173	488	2	21	(NA)	(NA)
Texas, total.....	13	5	279	1,004	242	420	812	1,785	1,301	3,038	65	48	311	1,474
Quarries only.....	8	3	100	273	87	170	231	556	148	679	55	25	26	76
Quarries with dressing plants.....	5	2	179	731	155	250	581	1,229	1,153	2,359	10	23	285	1,398
Mountain.....	47	...	116	340	104	195	297	694	342	869	68	167	194	968
Colorado.....	17	...	61	216	51	120	177	389	213	537	37	65	79	343
Pacific, total.....	43	2	174	750	157	291	669	1,658	567	2,113	63	112	131	832
Quarries only.....	27	...	68	254	61	122	238	785	250	974	41	61	131	832
Quarries with dressing plants.....	16	2	106	496	96	169	431	873	317	1,139	22	51		
California, total.....	31	...	119	486	107	195	435	1,127	424	1,462	48	89	65	455
Quarries only.....	23	...	51	186	46	91	177	604	227	778	37	53	27	134
Quarries with dressing plants.....	8	...	68	300	61	104	258	523	197	684	11	36	38	321
DIMENSION LIMESTONE QUARRIES														
United States, total.....	124	28	2,631	10,739	2,330	4,201	8,837	16,386	5,108	20,417	1,053	1,077	2,850	16,686
Quarries only.....	68	8	583	2,120	491	879	1,592	3,741	935	4,174	341	502	500	2,942
Quarries with dressing plants.....	56	20	2,048	8,619	1,839	3,322	7,245	12,645	4,173	16,243	712	575	2,350	13,744
Division and State														
Middle Atlantic.....	14	...	42	134	39	70	120	293	155	412	80	36	55	298
East North Central, total..	51	18	1,940	8,416	1,736	3,148	6,990	12,508	3,558	15,356	758	710	<sup>3</sup> 2,419	<sup>3</sup> 14,826
Quarries only.....	29	6	377	1,593	330	621	1,204	2,754	582	3,053	217	283	<sup>3</sup> 396	<sup>3</sup> 2,484
Quarries with dressing plants.....	22	12	1,563	6,823	1,406	2,527	5,786	9,754	2,976	12,303	541	427	<sup>3</sup> 2,023	<sup>3</sup> 12,342
Indiana, total.....	23	14	1,669	7,148	1,491	2,675	5,886	10,659	2,453	12,568	677	544	1,862	11,399
Quarries only.....	14	6	343	1,500	298	573	1,120	2,506	500	2,758	187	248	222	1,517
Quarries with dressing plants.....	9	8	1,326	5,648	1,193	2,102	4,766	8,153	1,953	9,810	490	296	1,640	9,882

See footnotes at end of table.

Table 2.—General Statistics by Regions, States, and Type of Operation: 1958—Continued

Industry code, industry, region, division, and type of operation <sup>1</sup>	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of net shipments of primary products <sup>2</sup>  (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
DIMENSION LIMESTONE QUARRIES—Continued														
Division and State—Con.														
East North Central—Con.														
Wisconsin.....	20	4	248	1,201	223	436	1,042	1,705	1,048	2,595	70	158	294	1,726
Quarries with dressing plants.....	12	4	232	1,160	208	415	1,005	1,581	1,017	2,467	49	131	178	1,036
West North Central, total..	24	5	309	1,141	255	460	841	1,602	616	2,155	126	63	( <sup>3</sup> )	( <sup>3</sup> )
Quarries only.....	12	...	56	132	37	55	67	149	50	182	19	17	( <sup>3</sup> )	( <sup>3</sup> )
Quarries with dressing plants.....	12	5	253	1,009	218	405	774	1,453	566	1,973	107	46	( <sup>3</sup> )	( <sup>3</sup> )
Minnesota.....	7	3	184	755	150	307	550	1,102	348	1,420	38	30	143	1,100
Quarries with dressing plants.....	4	3	161	744	135	292	541	1,059	344	1,375	34	28	(NA)	(NA)
South Atlantic.....	8	...	45	125	31	45	91	178	75	240	14	13	367	1,456
South Central.....	16	4	272	856	248	443	735	1,609	591	1,979	60	221		
West.....	11	...	23	67	21	35	60	196	113	275	15	34	9	106
DIMENSION GRANITE QUARRIES														
United States, total.....	137	44	3,897	15,623	3,465	6,731	12,645	24,315	10,811	34,408	816	718	4,009	20,976
Quarries only.....	76	9	740	2,288	681	1,277	2,046	4,085	1,709	5,577	386	217	967	4,590
Quarries with dressing plants.....	61	35	3,157	13,335	2,784	5,454	10,599	20,230	9,102	28,831	430	501	3,042	16,386
Division and State														
New England, total.....	27	12	1,225	5,927	1,074	2,139	4,709	8,801	3,098	11,621	420	278	1,535	9,624
Quarries only.....	10	1	156	658	143	278	563	918	329	1,179	133	68	199	1,094
Quarries with dressing plants.....	17	11	1,069	5,269	931	1,861	4,146	7,883	2,769	10,442	287	210	1,336	8,530
Middle Atlantic.....	8	...	33	130	32	62	127	288	78	357	45	9	94	535
East North Central, total..	11	3	153	461	132	225	386	718	253	932	13	39	( <sup>4</sup> )	( <sup>4</sup> )
West North Central, total..	22	6	982	4,325	873	1,902	3,397	7,047	3,366	10,325	43	88	<sup>4</sup> 1,039	<sup>4</sup> 4,875
Quarries only.....	15	1	94	267	85	170	246	778	302	1,064	21	16	<sup>4</sup> 220	<sup>4</sup> 1,023
Quarries with dressing plants.....	7	5	888	4,058	788	1,732	3,151	6,269	3,064	9,261	22	72	<sup>4</sup> 819	<sup>4</sup> 3,852
Minnesota.....	15	3	788	3,577	694	1,534	2,785	5,606	2,686	8,269	27	23	661	2,897
South Atlantic.....	43	17	1,123	3,341	1,010	1,782	2,787	5,040	2,330	7,139	245	231	<sup>5</sup> 1,270	<sup>5</sup> 5,608
Quarries only.....	27	5	324	838	302	536	761	1,408	685	2,036	169	57	<sup>5</sup> 486	<sup>5</sup> 2,093
Quarries with dressing plants.....	16	12	799	2,503	708	1,246	2,026	3,632	1,645	5,103	76	174	<sup>5</sup> 784	<sup>5</sup> 3,515
Georgia.....	28	14	636	1,880	579	998	1,577	2,868	1,588	4,299	170	157	687	2,940
South Central, total.....	10	5	288	1,037	259	460	877	1,717	1,402	3,086	39	33	( <sup>5</sup> )	( <sup>5</sup> )
Quarries only.....	5	1	51	136	46	97	123	280	113	385	31	8	( <sup>5</sup> )	( <sup>5</sup> )
Quarries with dressing plants.....	5	4	237	901	213	363	754	1,437	1,289	2,701	8	25	( <sup>5</sup> )	( <sup>5</sup> )
West, total.....	16	1	93	402	85	161	362	704	284	948	11	40	71	334
Quarries only.....	7	...	21	91	20	48	91	212	84	270	5	26	26	114
Quarries with dressing plants.....	9	1	72	311	65	113	271	492	200	678	6	14	45	220
DIMENSION STONE, NEC, QUARRIES														
United States, total.....	296	47	5,722	18,549	5,030	9,747	15,286	26,430	10,116	34,636	949	1,910	5,466	24,112
Quarries only.....	191	9	983	2,713	883	1,534	2,429	5,250	1,345	6,113	507	482	1,757	7,623
Quarries with dressing plants.....	105	38	4,739	15,836	4,147	8,213	12,857	21,180	8,771	28,523	442	1,428	3,709	16,489

See footnotes at end of table.



Table 2.—General Statistics by Regions, States, and Type of Operation: 1958—Continued

Industry code, industry, region, division, and type of operation <sup>1</sup>	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of net shipments of primary products <sup>2</sup>  (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
	Total	With 20 or more employees	Number	Payroll  (\$1,000)	Number	Man-hours  (1,000)	Wages  (\$1,000)							
DIMENSION STONE, NEC, QUARRIES—Continued														
Division and State														
New England.....	27	6	1,606	5,844	1,319	2,775	4,527	6,123	2,651	8,251	105	523	733	3,182
Quarries with dressing plants.....	20	6	1,558	5,699	1,276	2,691	4,396	6,004	2,600	8,115	102	489	(NA)	(NA)
Vermont.....	21	5	1,506	5,522	1,228	2,615	4,257	5,733	2,393	7,636	82	490	609	2,748
Middle Atlantic, total.....	86	16	1,016	3,538	916	1,742	2,999	5,421	1,768	6,845	278	344	1,099	4,994
Quarries only.....	46	2	216	680	198	366	602	1,221	266	1,392	145	95	167	725
Quarries with dressing plants.....	40	14	800	2,858	718	1,376	2,397	4,200	1,502	5,453	133	249	932	4,269
New York, total.....	23	3	241	707	206	389	587	1,457	749	2,044	67	162	262	1,387
Quarries only.....	10	...	58	178	54	113	166	371	35	396	36	10		
Quarries with dressing plants.....	13	3	183	529	152	276	421	1,086	714	1,648	31	152	262	1,387
Pennsylvania, total.....	63	13	775	2,831	710	1,353	2,412	3,964	1,019	4,801	211	182	837	3,607
Quarries only.....	36	2	158	502	144	253	436	850	231	996	109	85		
Quarries with dressing plants.....	27	11	617	2,329	566	1,100	1,976	3,114	788	3,805	102	97	837	3,607
East North Central, total..	34	4	480	1,569	441	773	1,375	2,721	942	3,419	160	244	<sup>3</sup> 1,237	<sup>3</sup> 6,330
Quarries only.....	25	1	134	429	123	219	383	904	258	1,108	118	54	<sup>3</sup> 1,237	<sup>3</sup> 6,330
Quarries with dressing plants.....	9	3	346	1,140	318	554	992	1,817	684	2,311	42	190		
Indiana.....	6	2	98	346	89	136	271	740	371	919	(NA)	192	50	349
Quarries only.....	3	1	55	205	48	84	163	445	158	577	(NA)	26	50	349
West North Central.....	8	1	401	1,522	351	760	1,208	2,201	1,651	3,759	20	93	( <sup>3</sup> )	( <sup>3</sup> )
South Atlantic, total.....	17	6	810	2,190	722	1,373	1,827	3,084	910	3,735	111	259	( <sup>6</sup> )	( <sup>6</sup> )
Quarries only.....	10	1	79	169	63	88	147	330	59	342	23	47	( <sup>6</sup> )	( <sup>6</sup> )
Quarries with dressing plants.....	7	5	731	2,021	659	1,285	1,680	2,754	851	3,393	88	212	( <sup>6</sup> )	( <sup>6</sup> )
East South Central.....	38	12	1,116	3,057	1,026	1,901	2,627	5,011	1,571	6,363	113	219	<sup>6</sup> 2,152	<sup>6</sup> 8,246
West South Central, total..	23	1	119	208	100	133	179	417	111	505	57	23	( <sup>6</sup> )	( <sup>6</sup> )
Quarries only.....	18	...	77	145	63	100	122	326	80	385	52	21	( <sup>6</sup> )	( <sup>6</sup> )
Quarries with dressing plants.....	5	1	42	63	37	33	57	91	31	120	5	2	( <sup>6</sup> )	( <sup>6</sup> )
Arkansas (quarries only)..	12	...	67	122	54	83	100	255	68	304	42	19	(NA)	(NA)
Mountain.....	42	...	97	270	87	154	232	586	271	708	65	149	<sup>7</sup> 245	<sup>7</sup> 1,360
Quarries only.....	34	...	73	205	66	121	177	476	125	497	60	104	(NA)	(NA)
Pacific.....	21	1	77	351	68	136	312	866	241	1,051	40	56	( <sup>7</sup> )	( <sup>7</sup> )
ALL CRUSHED AND BROKEN STONE QUARRIES														
Crushed and broken stone industry and crushed stone in manufactures.....	2,176	741	46,385	211,542	39,846	85,594	170,407	560,435	261,094	752,809	476,255	(NA)	43,758	435,453
1421—Crushed and broken stone industry...	1,957	644	41,404	188,401	34,865	75,632	147,266	445,788	239,008	616,076	385,898	68,720	37,471	338,418
Crushed stone quarries in manufactures.....	219	97	4,981	23,141	4,981	9,962	23,141	114,647	22,086	136,733	90,357	(NA)	6,287	97,035
Division and State														
New England, total.....	60	20	1,210	6,106	1,021	2,303	4,880	14,872	6,551	20,408	9,742	(NA)	(NA)	(NA)
Crushed and broken stone industry.....	53	19	1,094	5,574	905	2,071	4,348	11,022	6,113	16,120	7,763	1,015	(NA)	(NA)
Crushed stone quarries in manufactures.....	7	1	116	532	116	232	532	3,850	438	4,288	1,979	(NA)	(NA)	(NA)
Maine:														
Crushed and broken stone industry.....	5	1	96	371	79	201	313	606	419	990	156	35	208	1,888

See footnotes at end of table.

Table 2—General Statistics by Regions, States, and Type of Operation: 1958—Continued

Industry code, industry, region, division, and type of operation <sup>1</sup>	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of net shipments of primary products <sup>2</sup> (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
ALL CRUSHED AND BROKEN STONE QUARRIES—Continued														
Division and State—Con.														
New England—Continued														
Vermont (crushed and broken stone industry)...	6	2	158	703	135	299	555	1,686	1,184	2,684	189	186	238	2,806
Massachusetts, total.....	24	8	450	2,291	400	889	1,964	6,640	2,034	8,335	3,636	(NA)	430	5,104
Crushed and broken stone industry.....	20	8	400	2,078	350	790	1,751	4,464	1,843	5,968	3,171	339	332	2,717
Crushed stone quarries in manufactures.....	4	...	50	213	50	99	213	2,176	191	2,367	465	(NA)	98	2,387
Connecticut:														
Crushed and broken stone industry.....	17	7	397	2,280	312	730	1,636	3,971	2,594	6,134	4,135	431	306	3,338
Middle Atlantic, total.....	300	131	8,793	44,526	7,262	15,205	34,201	113,940	50,771	151,717	75,147	(NA)	9,283	<sup>F</sup> 92,719
Crushed and broken stone industry.....	253	108	7,561	38,904	6,030	12,741	28,579	89,266	46,505	122,777	58,281	12,994	7,663	<sup>F</sup> 92,719
Crushed stone quarries in manufactures.....	47	23	1,232	5,622	1,232	2,464	5,622	24,674	4,266	28,940	16,866	(NA)	1,620	
New York, total.....	76	36	2,311	12,944	1,912	4,256	10,506	35,918	13,576	44,614	23,169	(NA)	2,177	23,316
Crushed and broken stone industry.....	63	30	2,068	11,812	1,669	3,770	9,374	30,195	12,616	37,931	18,961	4,880	1,914	23,316
Crushed stone quarries in manufactures.....	13	6	243	1,132	243	486	1,132	5,723	960	6,683	4,208	(NA)	263	
New Jersey (crushed and broken stone industry)...	25	15	1,138	6,554	811	1,802	4,237	14,747	5,712	19,506	7,308	953	1,164	16,917
Pennsylvania, total.....	199	80	5,344	25,028	4,539	9,147	19,458	63,275	31,483	87,597	44,670	(NA)	5,942	<sup>F</sup> 52,486
Crushed and broken stone industry.....	165	63	4,355	20,538	3,550	7,169	14,968	44,324	28,177	65,340	32,012	7,161	4,585	34,449
Crushed stone quarries in manufactures.....	34	17	989	4,490	989	1,978	4,490	18,951	3,306	22,257	12,658	(NA)	1,357	<sup>F</sup> 18,037
East North Central, total..	508	137	10,994	55,075	9,336	19,817	43,529	134,929	56,512	176,319	122,303	(NA)	12,816	<sup>F</sup> 110,453
Crushed and broken stone industry.....	472	119	10,066	50,539	8,408	17,961	38,993	114,249	52,335	151,462	104,242	15,122	12,816	<sup>F</sup> 110,453
Crushed stone quarries in manufactures.....	36	18	928	4,536	928	1,856	4,536	20,680	4,177	24,857	18,061	(NA)		
Ohio, total.....	131	50	4,022	19,705	3,344	7,126	15,238	43,126	17,848	57,221	34,738	(NA)	3,637	<sup>F</sup> 37,026
Crushed and broken stone industry.....	110	38	3,485	16,972	2,807	5,997	12,505	30,323	15,272	41,842	24,295	3,753	3,042	<sup>F</sup> 37,026
Crushed stone quarries in manufactures.....	21	12	537	2,733	537	1,129	2,733	12,803	2,576	15,379	10,443	(NA)	595	
Indiana:														
Crushed and broken stone industry.....	67	26	1,169	5,196	988	2,132	4,021	12,989	7,519	17,176	11,979	3,332	<sup>8</sup> 1,189	<sup>8</sup> 10,662
Illinois, total.....	158	32	2,796	14,563	2,466	5,493	12,070	45,358	16,473	56,329	35,100	(NA)	2,588	29,428
Crushed and broken stone industry.....	153	30	2,669	13,881	2,339	5,239	11,388	41,725	15,990	52,213	32,379	5,502	2,588	29,428
Crushed stone quarries in manufactures.....	5	2	127	682	127	254	682	3,633	483	4,116	2,721	(NA)		
Michigan:														
Crushed and broken stone industry.....	43	8	1,615	9,153	1,293	2,471	6,552	18,444	6,530	23,829	(D)	1,145	<sup>8</sup> 1,546	<sup>8</sup> 17,072
Wisconsin:														
Crushed and broken stone industry.....	99	17	1,128	5,337	981	2,122	4,527	10,768	7,024	16,402	(D)	1,390	1,295	16,189
West North Central, total..	398	111	6,085	27,270	5,208	11,318	22,067	72,894	37,396	99,044	66,875	(NA)	(NA)	(NA)
Crushed and broken stone industry.....	374	97	5,462	24,315	4,585	10,071	19,112	57,426	34,184	80,364	54,257	11,246	(NA)	(NA)
Crushed stone quarries in manufactures.....	24	14	623	2,955	623	1,247	2,955	15,468	3,212	18,680	12,618	(NA)	(NA)	(NA)
Minnesota (crushed and broken stone industry)...	29	10	542	2,529	470	1,029	2,058	4,354	3,081	6,899	4,268	536	377	2,430
Iowa:														
Crushed and broken stone industry.....	112	31	1,731	7,807	1,421	3,300	5,725	20,383	13,535	29,461	19,522	4,457	<sup>8</sup> 1,399	<sup>8</sup> 13,176

See footnotes at end of table.



Table 2.—General Statistics by Regions, States, and Type of Operation: 1958—Continued

Industry code, industry, region, division, and type of operation <sup>1</sup>	1958											1954		
	Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of net shipments of primary products <sup>2</sup>	Capital expendi- tures	All em- ploy- ees, number	Value added in mining
	Total	With 20 or more em- ploy- ees	Number	Payroll	Number	Man- hours	Wages							
				(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(1,000 short tons)	(\$1,000)		(\$1,000)
ALL CRUSHED AND BROKEN STONE QUARRIES—Continued														
Division and State—Con.														
West North Central—Con.														
Missouri, total.....	156	40	2,350	10,068	2,036	4,129	8,352	26,963	12,678	35,953	24,307	(NA)	2,281	21,156
Crushed and broken stone industry.....	146	31	1,966	8,299	1,652	3,361	6,583	18,725	10,469	25,506	17,594	3,688	1,790	12,710
Crushed stone quarries in manufactures.....	10	9	384	1,769	384	768	1,769	8,238	2,209	10,447	6,713	(NA)	491	8,446
South Dakota:														
Crushed and broken stone industry.....	9	3	147	650	116	243	516	2,075	591	2,416	(D)	250	203	1,491
Nebraska:														
Crushed and broken stone industry.....	20	5	280	1,333	243	611	1,170	3,327	1,774	4,088	(D)	1,013	<sup>8</sup> 383	<sup>8</sup> 2,820
Kansas, total.....	66	19	901	4,170	788	1,738	3,533	11,656	5,104	15,458	11,368	(NA)	1,015	8,743
Crushed and broken stone industry.....	58	17	796	3,697	683	1,527	3,060	8,562	4,734	11,994	8,762	1,302	797	6,518
Crushed stone quarries in manufactures.....	8	2	105	473	105	211	473	3,094	370	3,464	2,606	(NA)	218	2,225
South Atlantic, total.....	306	162	8,592	32,975	7,507	16,005	26,671	93,924	51,836	131,865	77,092	(NA)	(NA)	(NA)
Crushed and broken stone industry.....	281	153	8,180	31,078	7,095	15,181	24,774	84,591	49,964	120,660	69,796	13,895	(NA)	(NA)
Crushed stone quarries in manufactures.....	25	9	412	1,897	412	824	1,897	9,333	1,872	11,205	7,296	(NA)	(NA)	(NA)
Delaware and Maryland, total.....	28	14	868	3,914	731	1,413	2,883	11,325	5,555	15,890	7,168	(NA)	595	7,630
Crushed and broken stone industry.....	23	14	815	3,652	678	1,307	2,621	9,134	5,207	13,351	5,911	990	512	5,758
Crushed stone quarries in manufactures.....	5	...	53	262	53	106	262	2,191	348	2,539	1,257	(NA)	83	1,872
Virginia, total.....	80	47	2,031	6,859	1,808	3,698	5,716	19,744	10,155	25,766	14,474	(NA)	1,763	13,388
Crushed and broken stone industry.....	71	42	1,839	6,048	1,616	3,313	4,905	15,526	9,485	20,878	11,769	4,133	1,479	8,907
Crushed stone quarries in manufactures.....	9	5	192	811	192	385	811	4,218	670	4,888	2,705	(NA)	284	4,481
West Virginia:														
Crushed and broken stone industry.....	30	10	683	2,888	580	1,023	2,180	6,790	2,697	9,018	5,061	469	<sup>8</sup> 1,237	<sup>8</sup> 10,417
North Carolina (crushed and broken stone industry).....	40	23	1,120	4,043	1,003	2,243	3,396	10,394	6,765	15,855	10,371	1,304	982	9,246
South Carolina:														
Crushed and broken stone industry.....	10	9	510	1,643	466	989	1,455	4,176	3,062	6,722	(D)	516	(NA)	(NA)
Georgia:														
Crushed and broken stone industry.....	31	25	1,424	5,233	1,238	2,884	4,181	17,898	11,784	26,392	(D)	3,290	1,063	9,530
Florida:														
Crushed and broken stone industry.....	76	30	1,789	7,571	1,514	3,422	6,036	20,673	10,964	28,444	20,412	3,193	<sup>8</sup> 1,216	<sup>8</sup> 11,708
East South Central, total..	227	87	4,487	15,851	4,002	8,555	13,478	45,548	23,779	62,647	43,378	(NA)	(NA)	(NA)
Crushed and broken stone industry.....	208	77	4,043	14,062	3,558	7,667	11,689	37,868	21,994	53,182	36,490	6,680	(NA)	(NA)
Crushed stone quarries in manufactures.....	19	10	444	1,789	444	888	1,789	7,680	1,785	9,465	6,888	(NA)	(NA)	(NA)
Kentucky (crushed and broken stone industry)..	95	37	1,801	6,142	1,567	3,553	5,061	15,478	9,275	21,851	15,381	2,902	1,474	10,821
Tennessee, total.....	91	32	1,610	5,644	1,431	3,051	4,826	16,363	9,940	23,733	16,807	(NA)	1,541	11,282
Crushed and broken stone industry.....	85	28	1,436	4,910	1,257	2,703	4,092	14,246	9,464	21,140	14,838	2,570	1,308	8,884
Crushed stone quarries in manufactures.....	6	4	174	734	174	348	734	2,117	476	2,593	1,969	(NA)	233	2,398

See footnotes at end of table.

## MINERAL INDUSTRIES—INDUSTRY STATISTICS

Table 2.—General Statistics by Regions, States, and Type of Operation: 1958—Continued

Industry code, industry, region, division, and type of operation <sup>1</sup>	1958												1954	
	Establish- ments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of net shipments of primary products <sup>2</sup>  (1,000 short tons)	Capital expendi- tures  (\$1,000)	All em- ploy- ees, number	Value added in mining  (\$1,000)
	Total	With 20 or more em- ploy- ees	Number	Payroll  (\$1,000)	Number	Man- hours  (1,000)	Wages  (\$1,000)							
ALL CRUSHED AND BROKEN STONE QUARRIES—Continued														
Division and State—Con.														
East South Central—Con. Alabama and Mississippi, total.....	41	18	1,076	4,065	1,004	1,951	3,591	13,707	4,564	17,063	11,190	(NA)	<sup>9</sup> 967	<sup>9</sup> 8,528
Crushed and broken stone industry.....	28	12	806	3,010	734	1,411	2,536	8,144	3,255	10,191	6,271	1,208	(NA)	(NA)
Crushed stone quarries in manufactures.....	13	6	270	1,055	270	540	1,055	5,563	1,309	6,872	4,919	(NA)	(NA)	(NA)
West South Central, total..	100	47	2,762	11,209	2,437	5,805	9,632	29,529	14,285	40,967	31,711	(NA)	(NA)	(NA)
Crushed and broken stone industry.....	82	38	2,372	9,628	2,047	5,026	8,051	19,750	13,028	29,931	23,112	2,847	(NA)	(NA)
Crushed stone quarries in manufactures.....	18	9	390	1,581	390	779	1,581	9,779	1,257	11,036	8,599	(NA)	(NA)	(NA)
Arkansas and Louisiana: Crushed and broken stone industry.....	16	4	401	1,517	364	918	1,376	3,266	1,999	5,042	4,258	223	<sup>10</sup> 538	<sup>10</sup> 6,502
Oklahoma: Crushed and broken stone industry.....	29	12	780	3,330	659	1,511	2,721	5,362	4,372	8,818	7,959	916	<sup>8</sup> 687	<sup>8</sup> 5,897
Texas, total.....	50	27	1,466	5,908	1,309	3,148	5,081	(D)	7,609	(D)	17,491	(NA)	1,132	<sup>11</sup> 12,761
Crushed and broken stone industry.....	37	22	1,191	4,781	1,034	2,597	3,954	11,122	6,657	16,071	10,895	1,708	773	6,062
Crushed stone quarries in manufactures.....	13	5	275	1,127	275	551	1,127	(D)	952	(D)	6,596	(NA)	359	<sup>16</sup> 6,699
Mountain, total.....	90	11	1,062	5,705	927	1,839	4,707	17,318	7,048	21,646	18,625	(NA)	(NA)	(NA)
Crushed and broken stone industry.....	69	8	874	4,798	739	1,463	3,800	10,371	6,162	13,813	14,189	2,720	(NA)	(NA)
Crushed stone quarries in manufactures.....	21	3	188	907	188	376	907	6,947	886	7,833	4,436	(NA)	(NA)	(NA)
Montana.....	10	...	57	238	49	81	213	993	239	1,161	(D)	(NA)	114	992
Idaho: Crushed and broken stone industry.....	11	1	85	411	77	124	364	705	536	1,135	828	106	(NA)	(NA)
Wyoming: Crushed and broken stone industry.....	4	1	87	392	74	158	335	585	267	834	442	18	<sup>8</sup> 142	<sup>8</sup> 1,103
Colorado: Crushed and broken stone industry.....	12	3	216	1,098	192	385	948	2,002	1,008	2,845	1,129	165	<sup>8</sup> 113	<sup>8</sup> 2,849
Arizona: Crushed and broken stone industry.....	15	...	58	201	49	85	170	519	283	745	252	57	<sup>8</sup> 72	<sup>8</sup> 793
Utah.....	15	2	323	2,123	281	600	1,738	6,622	1,800	7,866	(NA)	(NA)	150	1,235
Nevada: Crushed and broken stone industry.....	4	1	69	465	45	81	193	301	1,971	571	299	1,701	<sup>8</sup> 125	<sup>8</sup> 1,369
Pacific, total.....	187	35	2,400	12,825	2,146	4,747	11,242	37,481	12,916	48,196	31,382	(NA)	2,452	33,243
Crushed and broken stone industry.....	165	25	1,752	9,503	1,498	3,451	7,920	21,245	8,723	27,767	17,768	2,201	} 2,452	33,243
Crushed stone quarries in manufactures.....	22	10	648	3,322	648	1,296	3,322	16,236	4,193	20,429	13,614	(NA)		
Washington: Crushed and broken stone industry.....	41	4	385	1,869	323	509	1,507	3,552	1,895	4,660	3,188	787	<sup>8</sup> 452	<sup>8</sup> 5,489
Oregon: Crushed and broken stone industry.....	42	4	301	1,411	253	481	1,227	2,899	1,526	4,111	2,857	314	<sup>8</sup> 260	<sup>8</sup> 2,412
California, total.....	97	26	1,598	8,935	1,454	3,526	7,898	29,577	9,149	37,626	23,940	(NA)	1,740	25,342
Crushed and broken stone industry.....	82	17	1,066	6,223	922	2,461	5,186	14,794	5,302	18,996	11,723	1,100	} 1,740	25,342
Crushed stone quarries in manufactures.....	15	9	532	2,712	532	1,065	2,712	14,783	3,847	18,630	12,217	(NA)		
Hawaii: Crushed and broken stone industry.....	12	7	326	1,400	283	580	1,142	3,631	1,600	4,605	(D)	626	169	1,111

See footnotes at end of table.



Table 2.—General Statistics by Regions, States, and Type of Operation: 1958—Continued

Industry code, industry, region, division, and type of operation <sup>1</sup>	1958											1954		
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of net shipments of primary products <sup>2</sup>	Capital expenditures	All employees, number	Value added in mining
	Total	With 20 or more employees	Number	Payroll	Number	Man-hours	Wages							
				(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(1,000 short tons)	(\$1,000)		(\$1,000)
CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY, TOTAL.....	1,458	484	31,408	143,358	26,372	57,112	111,255	334,368	179,003	459,037	293,633	54,334	28,240	239,604
<u>Division and State</u>														
New England.....	12	4	224	883	192	458	724	1,392	917	2,061	275	248	130	735
Vermont.....	3	1	55	180	50	127	159	208	(D)	376	(D)	(D)	(NA)	(NA)
Middle Atlantic.....	178	76	5,564	28,216	4,441	9,464	20,848	62,020	34,657	86,572	44,420	10,105	5,303	46,241
New York.....	51	26	1,697	9,229	1,431	3,230	7,843	23,892	11,019	31,247	16,325	3,664	1,745	19,164
New Jersey.....	5	1	290	1,688	123	339	626	2,014	1,134	2,918	590	230		
Pennsylvania.....	122	49	3,577	17,299	2,887	5,895	12,379	36,114	22,504	52,407	27,505	6,211	3,558	27,077
East North Central.....	429	111	9,111	46,699	7,586	16,418	35,863	106,410	48,292	140,710	99,683	13,992	8,730	83,926
Ohio.....	101	36	2,931	14,752	2,326	5,123	10,681	26,302	13,504	36,782	23,548	3,024	2,911	26,056
Indiana.....	62	24	1,045	4,790	889	1,958	3,709	12,241	7,053	16,181	11,458	3,113	1,082	8,495
Illinois.....	147	30	2,625	13,712	2,298	5,148	11,230	41,287	15,835	51,674	32,057	5,448	2,380	27,396
Michigan.....	40	8	1,609	9,134	1,287	2,457	6,533	18,400	6,371	23,651	(D)	1,120	1,493	16,030
Wisconsin.....	79	13	901	4,311	786	1,732	3,710	8,180	5,529	12,422	(D)	1,287	864	5,949
West North Central.....	345	92	5,154	23,144	4,324	9,560	18,146	54,603	31,935	75,703	50,896	10,835	4,573	35,191
Minnesota.....	25	9	505	2,357	437	958	1,912	4,053	2,550	6,086	3,766	517	(NA)	(NA)
Iowa.....	108	30	1,691	7,635	1,386	3,221	5,582	20,058	13,049	28,689	18,748	4,418	1,266	11,266
Missouri.....	135	31	1,862	8,076	1,564	3,241	6,379	18,110	10,020	24,590	16,885	3,540	1,779	12,565
Kansas.....	54	16	744	3,481	639	1,424	2,874	8,159	4,345	11,254	8,360	1,250	761	6,197
South Atlantic.....	171	84	4,662	18,362	4,003	8,296	14,439	48,604	26,081	66,987	38,375	7,698	3,852	31,103
Virginia.....	47	27	1,268	4,208	1,104	2,249	3,348	9,933	6,272	13,667	7,644	2,538	1,036	6,056
West Virginia.....	23	10	644	2,766	546	972	2,079	6,566	2,605	8,704	4,888	467	910	6,538
North Carolina.....	9	5	212	699	192	340	637	2,212	1,329	3,106	2,211	435	214	2,055
Georgia.....	7	5	193	729	173	404	581	2,435	1,999	4,093	(D)	341	(NA)	(NA)
Florida.....	69	27	1,675	6,989	1,415	3,154	5,566	19,446	9,898	26,249	17,890	3,095	1,119	10,469
East South Central.....	190	73	3,858	13,549	3,397	7,346	11,211	36,584	21,414	51,718	36,135	6,280	3,433	23,639
Kentucky.....	91	37	1,784	6,094	1,551	3,525	5,016	15,286	9,249	21,681	15,279	2,854	(NA)	(NA)
Tennessee.....	75	25	1,342	4,667	1,183	2,558	3,867	13,712	9,225	20,460	14,741	2,477	1,243	8,657
Alabama and Mississippi.....	24	11	732	2,788	663	1,263	2,328	7,586	2,940	9,577	6,115	949	(NA)	(NA)
West South Central.....	57	32	1,901	7,809	1,637	4,022	6,419	15,695	10,294	23,504	18,226	2,485	1,415	10,507
Arkansas.....	9	3	159	465	137	304	399	1,281	643	1,780	1,605	144	101	574
Oklahoma.....	24	12	757	3,261	640	1,482	2,665	4,923	4,268	8,275	6,925	916	621	4,505
Texas.....	24	17	985	4,083	860	2,236	3,355	9,491	5,383	13,449	9,696	1,425	693	5,428
Mountain.....	35	6	483	2,487	402	762	1,819	4,612	3,653	6,152	2,686	2,113	368	3,207
Utah.....	8	1	97	519	80	137	335	1,298	366	1,535	639	129	117	702
Pacific.....	41	6	451	2,209	390	786	1,786	4,448	1,760	5,630	2,937	578	436	5,055
California.....	19	3	260	1,286	222	515	971	2,523	971	3,259	1,507	235	343	4,109
<u>Type of Operation</u>														
Producing establishments, total.....	1,452	484	30,602	113,895	26,350	57,069	111,177	334,556	178,954	459,037	293,633	54,309	11,281	239,564
Open quarries:														
Quarries only.....	62	7	746	2,864	686	1,567	2,630	8,355	4,275	11,283	9,487	1,347		
Quarries with preparation plants:														
Crushing.....	1,272	417	26,568	119,068	22,854	49,580	96,762	293,044	158,793	401,838	259,370	49,835	12,243	121,963
Screening but no crushing.....	12	2	153	631	142	353	579	1,258	913	2,074	1,866	97		
Dimension stone dressing.....	3	3	199	732	186	315	572	1,821	203	1,780	371	244		
Other preparation methods only.....	8	...	92	444	83	199	393	1,109	451	1,453	715	107		
Combination open and underground quarries.....	18	12	664	3,064	585	1,213	2,353	6,625	3,046	8,609	5,237	1,062	440	3,272
Underground quarries.....	60	37	1,931	8,856	1,661	3,530	7,228	17,716	7,132	23,872	13,302	976	3,034	17,761
Separately operated preparation plants.....	17	6	249	1,236	153	312	660	4,628	4,141	8,128	3,285	641	280	2,568
Nonproducing establishments	6	...	1125	1185	22	43	78	(13)	49	...	...	25	1112	40

See footnotes at end of table.

Table 2.—General Statistics by Regions, States, and Type of Operation: 1958—Continued

Industry code, industry, region, division, and type of operation <sup>1</sup>	1958												1954	
	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of net shipments of primary products <sup>2</sup>	Capital expenditures	All employees, number	Value added in mining
	Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
CRUSHED AND BROKEN GRANITE SUBINDUSTRY, TOTAL.....	121	61	3,309	12,975	2,906	6,442	10,771	33,493	20,806	49,596	33,301	4,703	2,550	22,201
<u>Region and State</u>														
Northeast.....	10	4	167	850	142	288	672	2,359	726	2,959	1,495	126	182	2,121
Massachusetts.....	3	2	92	389	79	153	347	860	314	1,143	618	31	84	688
East North Central.....	7	1	90	261	73	99	201	482	383	676	853	189	45	283
West North Central.....	5	2	59	271	51	112	223	380	733	1,051	710	62		
South.....	71	49	2,641	9,446	2,335	5,314	7,834	24,914	16,965	37,973	25,781	3,906	1,991	16,262
South Atlantic.....	68	48	2,430	8,529	2,144	4,770	6,978	23,288	15,813	35,253	23,219	3,848	(NA)	(NA)
Virginia.....	15	9	378	1,215	336	700	1,032	3,394	2,222	4,822	2,854	794	195	1,452
North Carolina.....	24	16	771	2,871	686	1,627	2,342	6,777	5,051	11,074	7,811	754	703	6,432
Georgia.....	18	14	778	2,759	663	1,473	2,146	9,009	5,663	12,880	8,399	1,792	507	4,201
Mountain.....	6	...	38	167	33	74	144	222	239	448	102	13	59	619
Pacific.....	22	5	314	1,980	272	555	1,697	5,136	1,760	6,489	4,360	407	273	2,916
California.....	16	4	251	1,676	216	451	1,421	4,396	1,172	5,309	3,808	259	253	2,823
CRUSHED AND BROKEN STONE, NEC, SUBINDUSTRY, TOTAL.....	378	99	6,687	32,068	5,587	12,078	25,240	77,927	39,199	107,443	56,647	9,683	6,681	76,613
<u>Division and State</u>														
Northeast.....	106	43	2,700	14,529	2,160	4,602	10,683	34,517	16,318	47,305	19,662	3,530	(NA)	(NA)
Massachusetts.....	14	5	272	1,518	238	566	1,256	3,267	1,346	4,375	2,348	238	(NA)	(NA)
Connecticut.....	13	6	338	1,944	261	625	1,417	3,523	2,145	5,302	3,728	366	294	3,151
Pennsylvania.....	43	14	778	3,239	663	1,274	2,589	8,210	5,673	12,933	4,468	950	1,027	7,372
East North Central.....	36	7	865	3,579	749	1,444	2,929	7,357	3,660	10,076	3,015	941	(NA)	(NA)
Ohio.....	9	2	554	2,220	481	874	1,824	4,021	1,768	5,060	747	729	(NA)	(NA)
Wisconsin.....	15	4	219	998	188	379	793	2,467	1,439	3,813	1,651	93	(NA)	(NA)
West North Central.....	24	3	249	900	210	399	743	2,443	1,516	3,610	2,486	349	(NA)	(NA)
Missouri.....	11	...	104	223	88	120	204	615	449	916	640	148	(NA)	(NA)
Kansas.....	4	1	52	216	44	103	186	403	(D)	740	552	(D)	36	321
South.....	82	30	1,533	5,602	1,328	2,896	4,611	16,412	10,232	23,591	10,097	3,053	(NA)	(NA)
South Atlantic.....	42	21	1,088	4,187	948	2,115	3,357	12,699	8,070	18,420	7,427	2,349	(NA)	(NA)
Maryland.....	6	4	153	667	112	149	390	1,190	1,414	2,428	1,250	176	(NA)	(NA)
Virginia.....	9	6	193	625	176	364	525	2,199	991	2,389	1,110	801	248	1,399
North Carolina.....	7	2	137	473	125	276	417	1,405	385	1,675	1,349	115	65	770
Georgia.....	6	6	453	1,745	402	1,007	1,454	6,454	4,122	9,419	2,267	1,157	(NA)	(NA)
Florida.....	7	3	114	1,582	99	268	470	1,227	1,066	2,195	1,328	98	(NA)	(NA)
Mountain.....	28	2	353	2,144	304	627	1,837	5,537	2,270	7,213	11,368	594	(NA)	(NA)
Pacific.....	102	14	987	5,314	836	2,110	4,437	11,661	5,203	15,648	10,019	1,216	(NA)	(NA)
Washington.....	23	3	228	1,154	186	294	873	1,882	1,090	2,626	1,879	346	(NA)	(NA)
Oregon.....	32	1	204	899	166	321	770	1,904	954	2,594	1,765	264	(NA)	(NA)
California.....	47	10	555	3,261	484	1,495	2,794	7,875	3,159	10,428	6,375	606	157,644	157,922
Hawaii.....	7	4	227	1,053	202	430	846	3,196	1,235	3,999	(D)	432	(NA)	(NA)
<u>Type of Operation</u>														
Producing establishments, total.....	370	99	116,437	1130,310	5,573	12,060	25,205	77,961	39,137	107,443	56,647	9,655	(NA)	(NA)
Open quarries:														
Quarries only.....	49	4	277	1,053	236	451	896	2,565	1,658	4,072	3,419	151	(NA)	(NA)
Quarries with preparation plants:														
Crushing.....	283	84	5,097	25,309	4,419	9,729	21,106	66,619	32,978	90,937	51,032	8,660	(NA)	(NA)
Dimension stone dressing.....	6	3	530	2,087	454	842	1,678	2,809	877	3,520	547	166	(NA)	(NA)
Other preparation methods only.....	18	2	112	322	101	198	290	711	570	1,202	722	79	(NA)	(NA)
Underground and combination.....	7	5	386	1,411	332	770	1,120	4,983	2,720	7,185	812	518	(NA)	(NA)
Separately operated preparation plants.....	7	1	35	128	31	70	115	274	334	527	115	81	(NA)	(NA)
Nonproducing establishments	8	...	116	1138	14	18	35	(13)	62	...	...	28	(NA)	(NA)

See footnotes at end of table.



Table 2.—General Statistics by Regions, States, and Type of Operation: 1958—Continued

Footnotes for Table 2

NA Not available.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some states are not shown separately in this table in order to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such States are shown below for 1958, with the number of establishments in each State (and in parentheses the number of employees or employment-size range):

SIC 1411, Dimension stone (Quarries only): Maine, 1 (0-4); New Hampshire, 2 (0-4); Massachusetts, 2 (5-9); Connecticut, 6 (5-9); Ohio, 11 (20-49); Illinois, 7 (20-49); Michigan, 6 (20-49); Iowa, 2 (10-19); South Dakota, 3 (29); Nebraska, 1 (0-4); Kansas, 2 (0-4); Maryland, 5 (20-49); Virginia, 3 (10-19); West Virginia, 2 (20-49); North Carolina, 5 (14); South Carolina, 3 (50-99); Kentucky, 3 (0-4); Alabama, 3 (0-4); Oklahoma, 4 (10-19); Montana, 1 (0-4); Idaho, 2 (0-4); Colorado, 13 (20-49); Arizona, 18 (20-49); Utah, 1 (5-9); Nevada, 2 (0-4); Washington, 1 (10-19); Oregon, 3 (0-4).

Dimension stone quarries with dressing plants (included in manufactures): Maine, 4 (100-249); New Hampshire, 2 (50-99); Massachusetts, 5 (250-499); Rhode Island, 2 (50-99); Connecticut, 3 (50-99); New York, 16 (100-250); New Jersey, 1 (0-4); Ohio, 3 (250-499); Illinois, 1 (5-9); Michigan, 1 (10-19); Iowa, 1 (100-249); Nebraska, 2 (0-4); Kansas, 5 (50-99); Maryland, 4 (20-49); Virginia, 4 (100-249); Florida, 2 (10-19); Alabama, 3 (250-499); Oklahoma, 5 (50-99); Idaho, 1 (0-4); Colorado, 4 (20-49); New Mexico, 2 (5-9); Arizona, 1 (0-4); Utah, 2 (0-4); Washington, 5 (20-49); Oregon, 3 (5-9).

SIC 1421, Crushed and broken stone: New Hampshire, 1 (5-9); Rhode Island, 4 (20-49); Delaware, 1 (20-49); Maryland, 22 (500-999); Alabama, 26 (500-999); Mississippi, 2 (0-4); Arkansas, 15 (250-499); Louisiana, 1 (10-19); Montana, 7 (20-49); New Mexico, 5 (20-49); Utah, 11 (285); Alaska, 1 (0-4).

Crushed stone quarries in manufactures: Maine, 1 (50-99); New Hampshire, 1 (10-19); Connecticut, 1 (5-9); Indiana, 3 (50-99); Michigan, 2 (100-249); Wisconsin, 5 (10-19); Iowa, 3 (50-99); South Dakota, 1 (0-4); Nebraska, 2 (50-99); Maryland, 5 (53); West Virginia, 1 (20-49); South Carolina, 1 (20-49); Georgia, 4 (20-49); Florida, 5 (50-99); Alabama, 12 (250-499); Mississippi, 1 (10-19); Arkansas, 3 (50-99); Oklahoma, 2 (50-99); Montana, 3 (20-49); Idaho, 1 (5-9); Wyoming, 2 (5-9); Colorado, 5 (50-99); New Mexico, 1 (5-9); Arizona, 3 (20-49); Utah, 4 (20-49); Nevada, 2 (20-49); Washington, 5 (20-49); Oregon, 2 (50-99); Hawaii, 1 (5-9).

<sup>2</sup>Represents the product indicated by the name of the industry or subindustry. (Industry totals for all stone therefore exceed the sum of the totals for the subindustries.) Net shipments represents gross shipments less stone received for dressing or crushing. For crushed or broken stone quarries in manufactures, represents gross shipments of stone plus production of stone for use in the same establishment in the manufacture of cement, lime, or other manufactured products.

<sup>3</sup>Figures for West North Central are included with those for East North Central.

<sup>4</sup>Figures for East North Central are included with those for West North Central.

<sup>5</sup>Figures for South Central are included with those for South Atlantic.

<sup>6</sup>Figures for South Atlantic and West South Central are included with those for East South Central.

<sup>7</sup>Figures for Pacific are included with those for Mountain.

<sup>8</sup>Includes figures for "Crushed stone quarries in manufactures".

<sup>9</sup>Represents Alabama only.

<sup>10</sup>Represents Arkansas only. See also footnote 8.

<sup>11</sup>Excludes data for separately reported central offices and related facilities. These were not distributed by type of operation.

<sup>12</sup>Includes data for 24 quarries with 191 employees and value added in mining of \$935 thousand for which the type of mining was not specified.

<sup>13</sup>Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeded capital expenses.

<sup>14</sup>Includes data for separately reported central offices and related facilities in the crushed and broken granite subindustry.

<sup>15</sup>Excludes data for one marble quarry.

Table 3A.—Detailed Statistics for Industries and

Item	1411—Dimension stone industry				1421—Crushed and broken stone industry			
	Total	Dimension limestone subindustry	Dimension granite sub-industry	Dimension stone, nec sub-industry	United States			
					Total	Crushed and broken limestone sub-industry	Crushed and broken granite sub-industry	Crushed and broken stone, nec sub-industry
1 Number of establishments, total.....	335	68	76	191	1,957	1,458	121	378
2 With 0-19 employees.....	309	60	67	182	1,313	974	60	279
3 With 20-99 employees.....	24	7	8	9	602	453	58	91
4 With 100 employees and over.....	2	1	1	...	42	31	3	8
5 Including quarries.....	335	68	76	191	1,933	1,441	121	371
6 Including preparation plants.....	9	4	1	4	1,813	1,387	108	318
7 Net shipments of primary products <sup>1</sup> .....1,000 short tons..	1,234	341	386	507	385,898	293,633	33,301	56,647
8 Value of shipments and receipts, total.....\$1,000..	15,864	4,174	5,577	6,113	616,076	459,037	49,596	107,443
9 Stone transferred to other establishments for preparation and resales.....do....	145	...	60	85	13,771	12,177	205	1,389
10 Net shipments and receipts, total.....do....	15,719	4,174	5,517	6,028	602,305	446,860	49,391	106,054
11 Primary products.....do....	15,275	4,128	5,166	5,979	580,851	430,007	48,467	99,247
12 Other products and services.....do....	444	46	351	49	21,454	16,853	924	6,807
13 Value added in mining.....do....	13,076	3,741	4,085	5,250	445,788	334,368	33,493	77,927
14 Number of persons engaged, total.....	2,575	640	785	1,150	42,727	32,496	3,341	6,890
15 Production and development workers, average for year.....	2,055	491	681	883	34,865	26,372	2,906	5,587
16 March.....	1,759	372	637	750	31,562	23,828	2,649	5,085
17 May.....	2,185	557	710	918	35,525	26,983	2,869	5,673
18 August.....	2,274	604	705	965	36,812	27,779	3,154	5,879
19 November.....	2,006	432	674	900	35,575	26,899	2,968	5,708
20 Other employees.....	251	92	59	100	6,539	5,036	403	1,100
21 Proprietors and firm members.....	269	57	45	167	1,323	1,088	32	203
22 Performing manual labor.....	175	38	24	113	611	499	14	98
23 Man-hours worked by production and development workers, total.....1,000..	3,690	879	1,277	1,534	75,632	57,112	6,442	12,078
24 At mines and quarries, total.....do....	3,627	866	1,240	1,521	44,242	34,719	3,380	6,143
25 Underground.....do....	8	...	...	8	3,293	3,068	...	225
26 Open quarries.....do....	2,965	790	1,128	1,047	31,655	23,522	2,891	5,242
27 Surface (including mine shops and yards).....do....	654	76	112	466	9,294	8,129	489	676
28 At preparation plants.....do....	63	13	37	13	31,390	22,393	3,062	5,935
29 Man-hours spent on development and exploration work (included above).....do....	55	16	...	39	594	479	40	75
30 Principal expenses designated below, total...\$1,000..	10,579	2,761	3,908	3,910	376,171	283,467	27,943	64,761
31 Wages of production and development workers.....do....	6,067	1,592	2,046	2,429	147,266	111,255	10,771	25,240
32 Salaries of all other employees.....do....	1,054	528	242	284	41,135	32,103	2,204	6,828
33 Supplies and purchases for resale.....do....	2,252	385	1,293	574	133,022	97,175	11,905	23,942
34 Stone received for preparation.....do....	...	...	...	...	2,185	2,056	...	129
35 Purchased fuel.....do....	404	87	115	202	21,809	17,442	1,120	3,247
36 Purchased electricity.....do....	422	78	171	173	14,513	10,881	1,309	2,323
37 Contract work.....do....	380	91	41	248	16,241	12,555	634	3,052
38 Purchased machinery installed.....do....	531	294	89	148	51,238	38,894	5,838	6,506
39 Capital expenditures, total.....do....	1,201	502	217	482	68,720	54,334	4,703	9,683
40 Development and exploration of mineral property.....do....	52	15	32	5	1,959	1,752	61	146
41 Preparation plant and other construction.....do....	359	70	51	238	16,161	12,411	948	2,802
42 New machinery and equipment.....do....	702	388	122	192	43,772	34,801	3,310	5,661
43 Used plant and equipment.....do....	88	29	12	47	6,828	5,370	384	1,074
44 Energy used.....million kwh equivalent..	135	33	38	64	8,307	6,878	384	1,045
45 Coal.....1,000 short tons..	1	1	( <sup>2</sup> )	( <sup>2</sup> )	186	179	( <sup>2</sup> )	7
46 Fuel oil.....1,000 barrels..	8	1	4	3	1,128	947	94	87
47 Gas.....million cu. ft..	12	...	...	12	1,709	1,471	26	212
48 Other fuels and undistributed <sup>3</sup> .....\$1,000..	349	81	90	178	14,146	11,045	546	2,555
49 Electric energy purchased.....million kwh..	22	3	9	10	891	673	80	138
50 Electric energy generated and used.....do....	...	...	...	...	56	54	...	2

See footnotes at end of table.



Subindustries, by Divisions and States: 1958

1421—Crushed and broken stone industry—Continued												
New England				Middle Atlantic								
Division	Massa- chusetts	Connecticut		Division, total		New York		New Jersey	Pennsylvania			
		Crushed and broken stone industry	Crushed and broken stone, nec, sub- industry	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry		Crushed and broken limestone subindustry	Crushed and broken stone, nec, sub- industry		
53	20	17	13	253	178	63	51	25	165	122	43	
34	12	10	7	145	102	33	25	10	102	73	29	
18	8	7	6	98	69	27	24	14	57	44	13	
1	...	...	...	10	7	3	2	1	6	5	1	
52	20	17	13	252	177	62	50	25	165	122	43	
51	19	17	13	247	175	60	50	25	162	120	42	
7,763	3,171	4,135	3,728	58,281	44,420	18,961	16,325	7,308	32,012	27,505	4,468	
16,120	5,968	6,134	5,302	122,777	86,572	37,931	31,247	19,506	65,340	52,407	12,933	
118	5	12	12	3,978	3,642	125	61	268	3,585	3,565	20	
16,002	5,963	6,122	5,290	118,799	82,930	37,806	31,186	19,238	61,755	48,842	12,913	
15,426	5,717	6,120	5,290	113,774	78,785	37,398	30,778	18,202	58,174	45,915	12,135	
576	246	2	...	5,025	4,145	408	408	1,036	3,581	2,927	778	
11,022	4,464	3,971	3,523	89,266	62,020	30,195	23,892	14,747	44,324	36,114	8,210	
1,096	400	397	338	7,648	5,616	2,075	1,703	1,143	4,430	3,620	810	
905	350	312	261	6,030	4,441	1,669	1,431	811	3,550	2,887	663	
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
189	50	85	77	1,531	1,123	399	266	327	805	690	115	
2	...	...	...	87	52	7	6	5	75	43	32	
1	...	...	...	51	35	6	5	...	45	30	15	
2,071	790	730	625	12,741	9,464	3,770	3,230	1,802	7,169	5,895	1,274	
913	415	239	214	8,036	6,126	2,520	2,194	1,149	4,367	3,619	748	
...	...	...	...	137	137	...	...	...	137	137	...	
801	342	215	198	5,702	4,101	1,846	1,544	589	3,267	2,652	615	
112	73	24	16	2,197	1,888	674	650	560	963	830	133	
1,158	375	491	411	4,705	3,338	1,250	1,036	653	2,802	2,276	526	
3	3	...	...	100	61	25	12	17	58	49	9	
10,886	3,592	4,510	3,782	76,875	56,011	21,620	17,704	11,528	43,727	35,641	8,086	
4,348	1,751	1,636	1,417	28,579	20,848	9,374	7,843	4,237	14,968	12,379	2,589	
1,226	327	644	527	10,325	7,368	2,438	1,386	2,317	5,570	4,920	650	
4,026	1,071	1,697	1,375	27,715	19,851	7,352	6,402	3,403	16,960	13,217	3,743	
...	...	...	...	137	73	117	53	...	20	20	...	
453	155	102	102	3,153	2,467	758	666	604	1,791	1,476	315	
509	177	200	150	3,566	2,902	1,100	893	535	1,931	1,608	323	
324	111	211	211	3,400	2,502	481	461	432	2,487	2,021	466	
801	329	364	307	8,534	6,862	2,808	2,544	738	4,988	4,162	826	
1,015	339	431	366	12,994	10,105	4,880	3,664	953	7,161	6,211	950	
4	4	...	...	837	744	374	340	35	428	403	25	
1,011	335	431	366	12,157	9,361	4,506	3,324	918	6,733	5,808	925	
165	51	40	34	1,344	1,098	325	284	273	746	638	108	
6	...	...	...	25	24	7	6	8	10	10	...	
9	1	8	8	237	202	51	46	72	114	96	18	
6	6	...	...	386	383	33	33	2	351	348	3	
309	150	73	53	1,627	1,138	444	383	224	959	739	220	
25	10	8	7	221	167	63	53	32	126	105	21	
(2)	...	...	...	2	2	(2)	...	...	2	2	...	

Table 3A—Detailed Statistics for Industries and

Item		1421—Crushed and broken stone industry—Continued							
		East North Central							
		Division, total			Ohio			Indiana	
		Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone, nec, subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone, nec, subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry
1	Number of establishments, total.....	472	429	36	110	101	9	67	62
2	With 0-19 employees.....	353	318	29	72	65	7	41	38
3	With 20-99 employees.....	104	97	6	33	32	1	26	24
4	With 100 employees and over.....	15	14	1	5	4	1	...	...
5	Including quarries.....	464	422	35	107	99	8	66	61
6	Including preparation plants.....	432	403	24	109	100	9	62	59
7	Net shipments of primary products <sup>1</sup> .....1,000 short tons..	104,242	99,683	3,015	24,295	23,548	747	11,979	11,458
8	Value of shipments and receipts, total.....\$1,000..	151,462	140,710	10,076	41,842	36,782	5,060	17,176	16,181
9	Stone transferred to other establishments for preparation and resales.....do....	4,174	4,168	6	1,307	1,301	6	17,176	16,181
10	Net shipments and receipts, total.....do....	147,288	136,542	10,070	40,535	35,481	5,054	16,871	15,824
11	Primary products.....do....	142,040	132,341	8,403	37,811	34,355	3,456	(D)	(D)
12	Other products and services.....do....	5,248	4,001	1,667	2,724	1,126	1,598		
13	Value added in mining.....do....	114,249	106,410	7,357	30,323	26,302	4,021	12,989	12,241
14	Number of persons engaged, total.....	10,429	9,451	876	3,543	2,985	558	1,222	1,090
15	Production and development workers, average for year.....	8,408	7,586	749	2,807	2,326	481	988	889
16	March.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
17	May.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
18	August.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
19	November.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
20	Other employees.....	1,658	1,525	116	678	605	73	181	156
21	Proprietors and firm members.....	363	340	11	58	54	4	53	45
22	Performing manual labor.....	158	149	5	32	30	2	15	13
23	Man-hours worked by production and development workers, total.....1,000..	17,961	16,418	1,444	5,997	5,123	874	2,132	1,958
24	At mines and quarries, total.....do....	10,586	9,884	652	3,752	3,446	306	1,220	1,141
25	Underground.....do....	766	762	3	430	429	1	20	20
26	Open quarries.....do....	7,109	6,447	615	2,197	1,892	305	917	838
27	Surface (including mine shops and yards)...do....	2,711	2,675	34	1,125	1,125	...	283	283
28	At preparation plants.....do....	7,375	6,534	792	2,245	1,677	568	912	817
29	Man-hours spent on development and exploration work (included above).....do....	138	131	...	30	25	5	11	11
30	Principal expenses designated below, total...\$1,000..	93,204	86,431	6,302	29,045	25,854	3,191	10,271	9,593
31	Wages of production and development workers.....do....	38,993	35,863	2,929	12,505	10,681	1,824	4,021	3,709
32	Salaries of all other employees.....do....	11,546	10,836	650	4,467	4,071	396	1,175	1,081
33	Supplies and purchases for resale.....do....	30,992	28,788	2,039	8,578	7,835	743	3,526	3,357
34	Stone received for preparation.....do....	888	888	...	304	304	...	108	108
35	Purchased fuel.....do....	4,774	4,475	267	1,191	1,077	114	669	627
36	Purchased electricity.....do....	3,641	3,428	201	1,313	1,217	96	486	468
37	Contract work.....do....	2,370	2,153	216	687	669	18	286	243
38	Purchased machinery installed.....do....	9,670	8,560	937	3,199	2,402	797	2,444	2,250
39	Capital expenditures, total.....do....	15,122	13,992	941	3,753	3,024	729	3,332	3,113
40	Development and exploration of mineral property.....do....	421	405	11	71	61	10	119	114
41	Preparation plant and other construction.....do....	14,701	13,587	930	3,682	2,963	719	3,213	2,999
42	New machinery and equipment.....do....								
43	Used plant and equipment.....do....								
44	Energy used.....million kwh equivalent..	2,180	2,064	105	443	392	51	243	229
45	Coal.....1,000 short tons..	96	92	4	9	7	2	1	1
46	Fuel oil.....1,000 barrels..	232	216	11	66	60	6	42	37
47	Gas.....million cu. ft..	339	321	18	66	48	18	99	99
48	Other fuels and undistributed <sup>2</sup> .....\$1,000..	2,943	2,784	152	690	635	55	429	413
49	Electric energy purchased.....million kwh..	207	194	12	68	62	6	26	25
50	Electric energy generated and used.....do....	39	39	(2)	2	2	...	...	...

See footnotes at end of table.



## Subindustries, by Divisions and States: 1958-Continued

1421—Crushed and broken stone industry—Continued											
East North Central—Continued						West North Central					
Illinois		Michigan		Wisconsin		Division		Minnesota		Iowa	
Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry
153	147	43	40	99	79	374	345	29	25	112	108
123	117	35	32	82	66	277	253	19	16	81	78
26	26	3	3	16	12	95	90	9	8	30	29
4	4	5	5	1	1	2	2	1	1	1	1
150	144	43	40	98	78	371	345	29	25	112	108
146	142	34	31	81	71	353	330	28	24	108	105
32,379	32,057	(D)	(D)	(D)	(D)	54,257	50,896	4,268	3,766	19,522	18,748
52,213	51,674	23,829	23,651	16,402	12,422	80,364	75,703	6,899	6,086	29,461	28,689
1,554	1,554	23,829	23,651	455	455	2,203	2,094	6,899	6,086	1,349	1,324
50,659	50,120										
48,821	48,284	22,817	22,637	15,947	11,967	78,161	73,609	6,439	5,626	28,112	27,365
1,838	1,836	(D)	(D)	15,720	11,441	76,598	71,943				
41,725	41,287	18,444	18,400	227	526	1,563	1,666	(D)	(D)	743	648
2,791	2,747	1,650	1,642	10,768	8,180	57,426	54,603	4,354	4,053	20,383	20,058
2,339	2,298	1,293	1,287	987	987	5,925	5,597	572	533	1,825	1,781
(NA)	(NA)	(NA)	(NA)	981	786	4,585	4,324	470	437	1,421	1,386
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
330	327	322	322	147	115	877	830	72	68	310	305
122	122	35	33	95	86	463	443	30	28	94	90
63	63	12	10	36	33	210	198	19	18	53	52
5,239	5,148	2,471	2,457	2,122	1,732	10,071	9,560	1,029	958	3,300	3,221
3,102	3,051	1,306	1,294	1,206	952	6,157	5,875	537	483	1,937	1,870
316	313	...	...	...	...	715	715	...	...	57	57
2,051	2,003	932	920	1,012	794	4,754	4,505	399	345	1,732	1,677
735	735	374	374	194	158	688	655	138	138	148	136
2,137	2,097	1,165	1,163	916	780	3,914	3,685	492	475	1,363	1,351
82	80	5	5	10	10	154	145	4	4	48	48
27,366	27,093	15,164	14,996	11,358	8,895	49,914	46,756	5,092	4,393	18,204	17,552
11,388	11,230	6,552	6,533	4,527	3,710	19,112	18,146	2,058	1,912	5,725	5,582
2,493	2,482	2,601	2,601	810	601	5,203	4,998	471	445	2,082	2,053
10,848	10,774	4,184	4,183	3,856	2,639	16,327	15,046	1,457	1,305	6,383	5,987
31	31	341	341	104	104	119	106	...	...	106	106
1,344	1,325	663	647	907	799	4,548	4,356	373	368	1,913	1,868
881	872	644	644	317	227	889	823	61	41	222	213
381	379	179	47	837	815	3,716	3,281	672	322	1,773	1,743
2,505	2,454	519	509	1,003	945	8,585	8,323	518	514	3,138	3,132
5,502	5,448	1,145	1,120	1,390	1,287	11,246	10,835	536	517	4,457	4,418
198	197	16	16	17	17	242	224	5	5	128	128
5,304	5,251	1,129	1,104	1,373	1,270	11,004	10,611	531	512	4,329	4,290
447	443	768	764	279	236	1,498	1,442	96	95	735	722
1	1	83	83	2	(2)	37	37	...	...	37	37
60	59	33	33	31	27	213	207	13	13	73	72
108	108	...	...	66	66	34	31	...	...	12	12
959	952	182	166	683	618	3,179	3,012	289	287	1,243	1,201
64	63	29	29	20	15	45	42	2	1	11	11
6	6	29	29	2	2	3	3	(2)	(2)	1	1

Table 3A.—Detailed Statistics for Industries and

Item	1421—Crushed and broken stone industry—Continued							
	West North Central—Continued				South Atlantic			
	Missouri		Kansas		Division, total			
	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken granite subindustry	Crushed and broken stone, nec, subindustry
1 Number of establishments, total.....	146	135	58	54	281	171	68	42
2 With 0-19 employees.....	115	104	41	38	128	87	20	21
3 With 20-99 employees.....	31	31	17	16	144	79	46	19
4 With 100 employees and over.....	...	...	...	...	9	5	2	2
5 Including quarries.....	146	135	55	54	276	166	68	42
6 Including preparation plants.....	135	128	56	52	264	157	67	40
7 Net shipments of primary products <sup>1</sup> .....1,000 short tons..	17,594	16,885	8,762	8,360	69,796	38,375	23,219	7,427
8 Value of shipments and receipts, total.....\$1,000..	25,506	24,590	11,994	11,254	120,660	66,987	35,253	18,420
9 Stone transferred to other establishments for preparation and resales.....do....	343	282	19	6	1,410	1,005	...	405
10 Net shipments and receipts, total.....do....	25,163	24,308	11,975	11,248	119,250	65,982	35,253	18,015
11 Primary products.....do....	24,524	23,671	11,824	11,097	114,173	61,274	35,103	16,449
12 Other products and services.....do....	639	637	151	151	5,077	4,708	150	1,566
13 Value added in mining.....do....	18,725	18,110	8,562	8,159	84,591	48,604	23,288	12,699
14 Number of persons engaged, total.....	2,063	1,959	823	769	8,263	4,725	2,435	1,103
15 Production and development workers, average for year.....	1,652	1,564	683	639	7,095	4,003	2,144	948
16 March.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
17 May.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
18 August.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
19 November.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
20 Other employees.....	314	298	113	105	1,085	659	286	140
21 Proprietors and firm members.....	97	97	27	25	83	63	5	15
22 Performing manual labor.....	49	49	13	13	47	37	1	9
23 Man-hours worked by production and development workers, total.....1,000..	3,361	3,241	1,527	1,424	15,181	8,296	4,770	2,115
24 At mines and quarries, total.....do....	2,324	2,222	919	886	8,092	4,654	2,589	849
25 Underground.....do....	385	385	273	273	402	201	...	201
26 Open quarries.....do....	1,586	1,505	598	565	5,686	2,926	2,200	560
27 Surface (including mine shops and yards).....do....	353	332	48	48	2,004	1,527	389	88
28 At preparation plants.....do....	1,037	1,019	608	538	7,089	3,642	2,181	1,266
29 Manhours spent on development and exploration work (included above).....do....	26	17	1	1	93	55	34	4
30 Principal expenses designated below, total...\$1,000..	15,437	14,952	7,323	6,766	69,712	39,306	19,761	10,645
31 Wages of production and development workers.....do....	6,583	6,379	3,060	2,874	24,774	14,439	6,978	3,357
32 Salaries of all other employees.....do....	1,647	1,697	637	607	6,304	3,923	1,551	830
33 Supplies and purchases for resale.....do....	4,794	4,532	2,465	2,246	27,087	12,869	9,361	4,857
34 Stone received for preparation.....do....	...	...	13	...	593	591	...	2
35 Purchased fuel.....do....	1,396	1,335	553	504	3,793	2,547	832	414
36 Purchased electricity.....do....	339	339	182	163	3,387	1,956	978	453
37 Contract work.....do....	678	670	413	372	3,774	2,981	61	732
38 Purchased machinery installed.....do....	3,262	3,144	1,108	1,060	11,330	5,137	4,581	1,612
39 Capital expenditures, total.....do....	3,688	3,540	1,302	1,250	13,895	7,698	3,848	2,349
40 Development and exploration of mineral property.....do....	88	70	20	20	182	134	47	1
41 Preparation plant and other construction.....do....	3,600	3,470	1,282	1,230	13,713	7,564	3,801	2,348
42 New machinery and equipment.....do....								
43 Used plant and equipment.....do....								
44 Energy used.....million kwh equivalent..	391	375	165	152	1,409	977	273	159
45 Coal.....1,000 short tons..	( <sup>2</sup> )	( <sup>2</sup> )	...	...	16	15	...	1
46 Fuel oil.....1,000 barrels..	58	56	38	38	201	122	69	10
47 Gas.....million cu. ft..	...	...	13	10	334	268	...	66
48 Other fuels and undistributed <sup>3</sup> .....\$1,000..	1,096	1,044	346	300	2,461	1,750	382	329
49 Electric energy purchased.....million kwh..	18	18	10	9	225	134	59	32
50 Electric energy generated and used.....do....	( <sup>2</sup> )	( <sup>2</sup> )	1	1	4	4	...	...

See footnotes at end of table.



## Subindustries, by Divisions and States: 1958-Continued

1421—Crushed and broken stone industry—Continued														
South Atlantic—Continued														
Delaware and Maryland	Virginia		West Virginia		North Carolina		South Carolina	Georgia			Florida			
	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken granite subindustry		Crushed and broken stone industry	Crushed and broken granite subindustry	Crushed and broken stone, nec, subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry		
23	71	47	30	23	40	24	10	31	18	6	76	69	1	
9	29	20	20	13	17	8	1	6	4	...	46	42	2	
12	42	27	9	9	23	16	9	21	12	4	28	25	3	
2	...	...	1	1	...	...	...	4	2	2	2	2	4	
23	70	46	30	23	40	24	10	31	18	6	72	65	5	
22	68	45	29	22	39	23	10	30	18	6	66	60	6	
5,911	11,769	7,644	5,061	4,888	10,371	7,811	(D)	(D)	8,399	2,267	20,412	17,890	7	
13,351	20,878	13,667	9,018	8,704	15,855	11,074	6,722	26,392	12,880	9,419	28,444	26,249	8	
188	191	187	6	6	...	...	...	915	...	398	110	110	9	
13,163	20,687	13,480	9,012	8,690	15,855	11,074	6,722	25,477	12,880	9,021	28,334	26,139	10	
12,001	20,144	13,138	9,003	8,623	15,855	11,074	6,722	25,042	12,880	7,886	25,406	23,413	11	
1,162	543	342	9	77	...	...	...	435	...	1,135	2,928	2,726	12	
9,134	15,526	9,933	6,790	6,566	10,394	6,777	4,176	17,898	9,009	6,454	20,673	19,446	13	
821	1,864	1,286	697	655	1,134	774	510	1,430	778	453	1,807	1,692	14	
678	1,616	1,104	580	546	1,003	686	466	1,238	663	402	1,514	1,415	15	
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	16	
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	17	
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	18	
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	19	
137	223	164	103	98	117	85	44	186	115	51	275	260	20	
6	25	18	14	11	14	3	...	6	...	...	18	17	21	
4	16	10	9	6	4	...	...	5	...	...	9	9	22	
1,307	3,313	2,249	1,023	972	2,243	1,627	989	2,884	1,473	1,007	3,422	3,154	23	
589	1,831	1,394	699	648	1,436	1,085	484	1,157	704	387	1,896	1,732	24	
...	48	48	122	122	46	...	...	186	...	186	...	...	25	
415	1,346	929	368	328	1,130	915	452	771	522	190	1,204	1,120	26	
174	437	417	209	198	260	170	32	200	182	11	692	612	27	
718	1,482	855	324	324	807	542	505	1,727	769	620	1,526	1,422	28	
6	24	14	5	5	21	21	...	7	7	...	30	30	29	
8,177	12,672	8,663	5,321	5,108	9,734	7,297	4,232	12,892	5,587	4,903	16,684	15,149	30	
2,621	4,905	3,348	2,180	2,079	3,396	2,342	1,455	4,181	2,146	1,454	6,036	5,566	31	
1,031	1,143	860	708	687	647	529	188	1,052	613	291	1,535	1,423	32	
3,006	4,477	2,850	1,760	1,701	4,818	3,851	2,158	5,920	2,183	2,830	4,948	4,099	33	
...	37	35	...	...	...	...	...	517	...	...	39	39	34	
251	1,022	803	163	145	365	248	169	569	293	105	1,254	1,196	35	
396	790	532	321	321	489	325	159	616	326	215	616	583	36	
872	298	235	189	175	19	2	103	37	26	8	2,256	2,243	37	
682	2,861	1,817	264	263	1,074	625	473	4,125	2,835	964	1,851	1,738	38	
990	4,133	2,538	469	467	1,304	754	516	3,290	1,792	1,157	3,193	3,095	39	
14	46	28	27	27	30	30	...	3	...	...	62	62	40	
976	4,087	2,510	442	440	1,274	724	516	3,287	1,792	1,157	3,131	3,033	42	
94	419	330	65	64	119	80	55	259	97	50	398	382	44	
...	15	15	(2)	(2)	...	...	...	1	...	1	...	...	45	
15	39	30	12	12	26	23	13	36	28	5	60	60	46	
...	66	...	...	...	...	...	...	268	...	...	...	...	47	
178	666	518	83	68	193	98	88	245	112	61	1,008	950	48	
23	50	34	24	24	27	17	11	46	21	18	44	42	49	
(2)	(2)	(2)	...	...	...	...	...	2	...	...	(2)	(2)	50	

Table 3A—Detailed Statistics for Industries and

Item		1421—Crushed and broken stone industry—Continued							
		East South Central						West South Central	
		Division		Kentucky		Tennessee		Division	
		Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry	Crushed and broken stone industry	Crushed and broken limestone subindustry
1	Number of establishments, total.....	208	190	95	91	85	75	82	57
2	With 0-19 employees.....	131	117	58	54	57	50	44	25
3	With 20-99 employees.....	76	73	37	37	28	25	35	30
4	With 100 employees and over.....	1	...	...	...	...	...	3	2
5	Including quarries.....	207	190	95	91	84	75	79	55
6	Including preparation plants.....	198	186	90	89	81	74	74	56
7	Net shipments of primary products <sup>1</sup> .....1,000 short tons..	36,490	36,135	15,381	15,279	14,838	14,741	23,112	18,226
8	Value of shipments and receipts, total.....\$1,000..	53,182	51,718	21,851	21,681	21,140	20,460	29,931	23,504
9	Stone transferred to other establishments for preparation and resales.....do....	661	631	252	252	409	379	281	231
10	Net shipments and receipts, total.....do....	52,521	51,087	21,599	21,429	20,731	20,081	29,650	23,273
11	Primary products.....do....	51,704	50,302	21,043	20,865	20,540	19,923	28,919	22,748
12	Other products and services.....do....	817	785	556	564	191	158	731	525
13	Value added in mining.....do....	37,868	36,584	15,478	15,286	14,246	13,712	19,750	15,695
14	Number of persons engaged, total.....	4,178	3,979	1,861	1,838	1,489	1,395	2,412	1,923
15	Production and development workers, average for year.....	3,558	3,397	1,567	1,551	1,257	1,183	2,047	1,637
16	March.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
17	May.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
18	August.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
19	November.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
20	Other employees.....	485	461	234	233	179	159	325	264
21	Proprietors and firm members.....	135	121	60	54	53	53	40	22
22	Performing manual labor.....	52	44	22	20	17	17	17	10
23	Man-hours worked by production and development workers, total.....1,000..	7,667	7,346	3,553	3,525	2,703	2,558	5,026	4,022
24	At mines and quarries, total.....do....	4,929	4,689	2,494	2,466	1,464	1,362	2,999	2,541
25	Underground.....do....	829	829	619	619	210	210	164	164
26	Open quarries.....do....	3,480	3,240	1,537	1,509	1,122	1,020	2,212	1,765
27	Surface (including mine shops and yards).....do....	620	620	338	338	132	132	623	612
28	At preparation plants.....do....	2,738	2,657	1,059	1,059	1,239	1,196	2,027	1,481
29	Man-hours spent on development and exploration work (included above).....do....	29	29	9	9	13	13	15	15
30	Principal expenses designated below, total..\$1,000..	30,264	29,360	12,698	12,629	12,154	11,753	19,781	16,092
31	Wages of production and development workers.....do....	11,689	11,211	5,061	5,016	4,092	3,867	8,051	6,419
32	Salaries of all other employees.....do....	2,373	2,338	1,081	1,078	818	800	1,577	1,390
33	Supplies and purchases for resale.....do....	11,473	11,182	4,659	4,649	5,105	4,986	7,895	6,565
34	Stone received for preparation.....do....	318	313	11	11	307	302	27	20
35	Purchased fuel.....do....	2,024	1,994	978	973	729	719	1,185	945
36	Purchased electricity.....do....	1,299	1,268	513	508	520	520	686	551
37	Contract work.....do....	1,088	1,054	395	394	583	559	360	202
38	Purchased machinery installed.....do....	5,792	5,603	2,719	2,714	2,220	2,139	2,875	2,011
39	Capital expenditures, total.....do....	6,680	6,280	2,902	2,854	2,570	2,477	2,847	2,485
40	Development and exploration of mineral property.....do....	112	112	40	40	27	27	31	31
41	Preparation plant and other construction.....do....	6,568	6,168	2,862	2,814	2,543	2,450	2,816	2,454
42	New machinery and equipment.....do....								
43	Used plant and equipment.....do....								
44	Energy used.....million kwh equivalent..	625	608	268	267	240	237	482	409
45	Coal.....1,000 short tons..	3	2	(2)	(2)	2	2	3	3
46	Fuel oil.....1,000 barrels..	91	91	25	25	40	40	100	95
47	Gas.....million cu. ft..	3	3	...	...	...	...	221	217
48	Other fuels and undistributed <sup>3</sup> .....\$1,000..	1,435	1,410	803	800	463	452	694	478
49	Electric energy purchased.....million kwh..	87	85	24	24	41	41	46	37
50	Electric energy generated and used.....do....	6	6	6	6	...	...	...	...

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Represents the product indicated by the name of the industry.<sup>2</sup>Less than one-half of the unit of measure specified.



## Subindustries, by Divisions and States: 1958-Continued

1421—Crushed and broken stone industry—Continued													
West South Central—Continued				Mountain			Pacific						
Oklahoma		Texas		Crushed and broken stone industry	Crushed and broken limestone sub-industry	Crushed and broken stone, nec, sub-industry	Division				California		
Crushed and broken stone industry	Crushed and broken limestone sub-industry	Crushed and broken stone industry	Crushed and broken limestone sub-industry				Crushed and broken stone industry	Crushed and broken limestone sub-industry	Crushed and broken granite sub-industry	Crushed and broken stone, nec, sub-industry	Crushed and broken stone industry	Crushed and broken granite sub-industry	Crushed and broken stone, nec, sub-industry
29	24	37	24	69	35	28	165	41	22	102	82	16	47
17	12	15	7	61	29	26	140	35	17	88	65	12	37
11	11	21	16	7	6	1	25	6	5	14	17	4	10
1	1	1	1	1	...	1	...	...	...	...	...	...	...
28	23	36	23	68	34	28	164	41	22	101	82	16	47
27	24	33	23	52	30	18	142	39	15	88	65	9	38
7,959	6,925	10,895	9,696	14,189	2,686	11,368	17,768	2,937	4,360	10,019	11,723	3,808	6,375
8,818	8,275	16,071	13,449	13,813	6,152	7,213	27,767	5,630	6,489	15,648	18,996	5,309	10,428
178	153	100	78	375	6,152	{ 7,213	571	5,630	6,489	{ 452	520	5,309	{ 423
8,640	8,122	15,971	13,371	13,438	{ 7,213	27,196	{ 5,630	6,489	{ 15,196	18,476	18,476	5,309	{ 10,005
8,551	8,034	15,329	12,935	13,031	5,581	7,144	25,186	5,491	5,876	13,272	16,716	5,232	8,290
89	88	642	436	407	(D)	69	2,010	(D)	(D)	1,924	1,760	(D)	1,715
5,362	4,923	11,122	9,491	10,371	4,612	5,537	21,245	4,448	5,136	11,661	14,794	4,396	7,875
801	765	1,196	995	907	500	372	1,869	476	327	1,066	1,127	261	594
659	640	1,034	860	739	402	304	1,498	390	272	836	922	216	484
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
121	117	145	125	135	81	49	254	61	42	151	144	35	71
21	8	17	10	33	17	19	117	25	13	79	61	10	39
3	3	12	5	18	9	8	57	15	7	35	29	5	17
1,511	1,482	2,597	2,236	1,463	762	627	3,451	786	555	2,110	2,461	451	1,495
981	966	1,571	1,365	720	417	278	1,810	458	345	1,007	1,246	281	642
...	...	99	99	79	79	...	201	163	...	38	163	...	...
717	710	1,116	910	562	259	278	1,349	247	254	848	860	198	540
264	256	356	356	79	79	...	260	48	91	121	223	83	102
530	516	1,026	871	743	345	349	1,641	328	210	1,103	1,215	170	853
...	...	15	15	26	26	...	36	14	9	13	19	8	...
6,773	6,600	10,128	8,509	8,790	4,137	4,260	16,745	3,661	3,401	9,683	10,905	2,710	6,047
2,721	2,665	3,954	3,355	3,800	1,819	1,837	7,920	1,786	1,697	4,437	5,186	1,421	2,794
609	596	728	728	998	668	307	1,583	423	283	877	1,037	255	467
2,626	2,582	4,339	3,568	2,348	1,065	1,087	5,159	897	988	3,274	2,816	692	2,247
...	...	27	20	13	13	...	90	52	...	38	78	...	36
456	440	589	455	1,043	396	635	836	171	132	533	1,060	80	269
249	244	279	256	107	92	6	429	69	138	222	343	129	167
112	73	212	127	481	84	388	728	263	163	302	385	133	67
929	929	1,211	957	2,170	2,003	154	1,481	308	339	834	620	138	373
916	916	1,708	1,425	2,720	2,113	594	2,201	578	407	1,216	1,100	259	606
...	...	31	31	57	57	...	73	43	9	21	35	9	...
916	916	1,677	1,394	2,663	2,056	594	2,128	535	398	1,195	1,065	250	606
172	168	258	223	340	167	169	264	49	46	169	159	29	100
...	...	3	3	(2)	(2)	...	...	...	...	...	...	...	...
55	55	36	35	16	10	6	29	4	10	15	15	7	6
31	31	186	186	288	248	40	98	...	15	83	83	...	83
213	197	386	254	877	277	588	621	148	61	412	333	32	208
15	15	21	19	6	5	...	29	5	9	15	24	9	12
...	...	...	...	1	...	1	1	...	...	1	...	...	...

<sup>3</sup>Undistributed fuels costs for the Dimension Stone Industry were \$268 thousand; for the Dimension Limestone Subindustry, \$69 thousand; for the Dimension Granite Subindustry, \$74 thousand; and for the Dimension Stone, nec, Subindustry, \$125 thousand. Undistributed fuels costs for the Crushed and Broken Stone Industry were \$6,672 thousand; for the Crushed and Broken Limestone Subindustry, \$5,048 thousand; for the Crushed and Broken Granite Subindustry, \$171 thousand; and for the Crushed and Broken Stone, nec, Industry, \$1,453 thousand.

## MINERAL INDUSTRIES—INDUSTRY STATISTICS

Table 3B.—Detailed Statistics for the Crushed and Broken Limestone and Crushed and Broken Stone, NEC Subindustries by Selected Types of Operation in the United States: 1958

Item	Crushed and broken limestone subindustry								Crushed and broken stone, nec subindustry					
	All estab- lishments	All producing estab- lishments	Producing establishments						All estab- lishments	All producing estab- lishments	Producing establishments			
			Quarries only	Open quarries		Combi- nation open and under- ground quarries	Under- ground quarries	Separately operated preparation plants			With crushing	Open quarries		Under- ground and combi- nation open and under- ground quarries
				Quarries with preparation plants	With screening and other methods only							Quarries only and quarries with other preparation		
Number of establishments, total.....	1,458	1,452	62	1,272	23	18	60	17	378	370	283	73		
With 0-19 employees.....	974	968	55	855	18	6	23	11	279	271	199	64	2	
With 20-99 employees.....	453	453	7	388	4	12	36	6	91	91	79	8	3	
With 100 employees and over.....	31	31	...	29	1	...	1	...	8	8	5	1	2	
Including quarries.....	1,441	1,435	62	1,272	23	18	60	...	371	363	283	73	7	
Including preparation plants.....	1,387	1,387	...	1,272	23	18	57	17	318	318	283	24	4	
Net shipments of primary products <sup>1</sup> .....1,000 short tons..	293,633	293,633	9,487	259,370	2,952	5,237	13,302	3,285	56,647	56,647	51,032	4,688	812	
Value of shipments and receipts, total.....\$1,000..	459,037	459,037	11,283	401,838	5,307	8,609	23,872	8,128	107,443	107,443	90,937	8,794	7,185	
Stone transferred to other estab- lishments for preparation and resales.....do..	12,177	12,177	54	10,127	69	400	18	1,509	1,389	1,389	553	78	470	
Net shipments and receipts.....do..	446,860	446,860	11,229	391,711	5,238	8,209	23,854	6,619	106,054	106,054	90,384	8,716	6,715	
Value added mining.....do..	334,368	334,556	8,355	293,044	4,188	6,625	17,716	4,628	77,927	77,961	66,619	6,085	4,983	
Number of persons engaged, total.....	32,496	31,680	861	27,497	455	671	1,946	250	6,890	6,634	5,248	965	386	
Production and development workers, average for year.....	26,372	26,350	686	22,854	411	585	1,661	153	5,587	5,573	4,419	791	332	
March.....	23,828	23,811	505	20,524	394	552	1,703	133	5,085	5,071	3,935	783	324	
May.....	26,983	26,961	714	23,397	396	602	1,698	154	5,673	5,659	4,479	820	335	
August.....	27,779	27,753	817	24,087	441	657	1,588	163	5,879	5,865	4,722	781	332	
November.....	26,899	26,881	717	23,391	413	559	1,656	145	5,708	5,694	4,539	779	340	
Other employees.....	5,036	4,252	60	3,714	33	79	270	96	1,100	864	678	128	54	
Proprietors and firm members.....	1,088	1,078	115	929	11	7	15	1	203	197	151	46	...	
Performing manual labor.....	499	493	90	383	8	4	7	1	98	94	73	21	...	
Man-hours worked by production and development workers, total...1,000..	57,112	57,069	1,567	49,580	867	1,213	3,530	312	12,078	12,060	9,729	1,491	770	
At mines and quarries, total.....do..	34,719	34,676	1,567	28,760	627	1,088	2,634	...	6,143	6,125	4,851	897	377	
Underground.....do..	3,068	3,068	...	...	...	687	2,381	...	225	225	...	...	225	
Open quarries.....do..	23,522	23,490	1,477	21,163	524	326	...	...	5,242	5,224	4,229	867	128	
Surface (including mine shops and yards).....do..	8,129	8,118	90	7,597	103	75	253	...	676	676	622	30	24	
At preparation plants.....do..	22,393	22,393	...	20,820	240	125	896	312	5,935	5,935	4,878	594	393	
Man-hours spent on development and exploration work (included above)...do..	479	469	10	384	5	1	69	...	75	60	45	15	...	
Principal expenses designated below, total.....\$1,000..	283,467	276,791	6,068	242,167	3,210	5,267	14,946	5,133	64,761	62,757	52,503	6,289	3,797	
Wages of production and development workers.....do..	111,255	111,177	2,630	96,762	1,544	2,353	7,228	660	25,240	25,205	21,106	2,864	1,120	
Salaries of all other employees....do..	32,103	25,718	234	22,306	263	711	1,628	576	6,828	5,105	4,203	598	291	
Supplies and purchases for resale.....do..	97,175	96,985	1,513	87,212	709	1,468	4,406	1,677	23,942	23,727	20,249	1,533	2,110	
Stone received for preparation....do..	2,056	2,056	...	1,600	...	...	...	456	129	129	45	2	...	
Purchased fuel.....do..	17,442	17,423	1,143	14,818	411	271	664	116	3,247	3,235	2,760	341	92	
Purchased electricity.....do..	10,881	10,881	160	9,179	98	394	883	167	2,323	2,318	2,010	89	174	
Contract work.....do..	12,555	12,551	388	10,290	185	70	137	1,481	3,052	3,038	2,130	862	10	
Purchased machinery installed.....do..	38,894	38,894	1,071	35,530	164	843	1,042	244	6,506	6,496	5,784	278	334	
Capital expenditures, total.....do..	54,334	54,309	1,347	49,835	448	1,062	976	641	9,683	9,655	8,660	396	518	
Development and exploration of mineral property.....do..	1,752	1,751	53	1,646	18	5	29	...	146	138	90	30	...	
Preparation plant and other construction.....do..	12,411	12,406	199	11,466	22	238	83	398	2,802	2,792	2,675	46	71	
New machinery and equipment.....do..	34,801	34,784	889	31,957	397	634	703	204	5,661	5,651	5,119	279	239	
Used plant and equipment.....do..	5,370	5,368	206	4,766	11	185	161	39	1,074	1,074	776	41	208	
Energy used.....million kwh equivalent..	6,878	6,835	691	5,567	124	142	259	52	1,045	1,041	878	105	45	
Coal.....1,000 short tons..	179	179	52	122	...	1	1	3	7	7	4	2	1	
Fuel oil.....1,000 barrels..	947	945	9	880	15	14	24	3	87	87	81	5	1	
Gas.....million cu. ft..	1,471	1,351	271	833	...	128	119	...	212	212	194	18	...	
Other fuels and undistri- buted.....\$1,000..	11,045	11,042	727	9,269	335	167	481	63	2,555	2,543	2,141	282	78	
Electric energy purchased.....million kwh..	673	671	12	555	14	29	53	8	138	137	114	6	15	
Electric energy generated and used...do..	54	54	...	51	...	...	3	...	2	2	2	...	...	

<sup>1</sup>Represents the product indicated by the name of the industry.



Table 4.—Selected Statistics for Establishments Classified by Employment Size, for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—							
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees
1411	ALL DIMENSION STONE:									
	Number of establishments.....	335	210	54	45	22	2	2	...	...
	All employees:									
	Number.....	<u>12,306</u>	333	350	614	632	<u>348</u>	(D)	...	...
	Payroll.....\$1,000..	<u>17,121</u>	870	923	1,699	2,060	<u>1,251</u>	(D)	...	...
	Production and development workers:									
	Number.....	2,055	312	309	532	580	<u>322</u>	(D)	...	...
	Man-hours.....1,000..	3,690	514	502	954	1,082	<u>638</u>	(D)	...	...
	Wages.....\$1,000..	6,067	821	837	1,509	1,812	<u>1,088</u>	(D)	...	...
	Value added in mining.....do....	13,076	2,410	1,852	2,988	3,858	<u>1,968</u>	(D)	...	...
	Value of shipments and receipts..do....	15,864	2,585	2,473	3,655	4,598	<u>2,553</u>	(D)	...	...
	Capital expenditures.....do....	1,201	539	224	172	182	<u>84</u>	(D)	...	...
	DIMENSION LIMESTONE SUBINDUSTRY:									
	Number of establishments.....	68	46	7	7	7	...	1	...	...
	All employees:									
	Number.....	<u>1583</u>	69	49	119	317	...	(D)	...	...
	Payroll.....\$1,000..	<u>12,120</u>	172	117	338	1,175	...	(D)	...	...
	Production and development workers:									
	Number.....	491	65	45	85	296	...	(D)	...	...
	Man-hours.....1,000..	879	99	68	139	573	...	(D)	...	...
	Wages.....\$1,000..	1,592	159	113	263	1,057	...	(D)	...	...
	Value added in mining.....do....	3,741	637	252	472	2,380	...	(D)	...	...
	Value of shipments and receipts..do....	4,174	655	264	584	2,671	...	(D)	...	...
	Capital expenditures.....do....	502	217	152	18	115	...	(D)	...	...
	Number of producing establish- ments by type of operation, total....	64	42	7	7	7	...	1	...	...
	Quarries only (open quarries).....	60	40	5	7	7	...	1	...	...
	Quarries with crushing plants (open quarries).....	4	2	2	...	...	...	...	...	...
	DIMENSION GRANITE SUBINDUSTRY:									
	Number of establishments.....	76	29	27	11	6	2	1	...	...
	All employees:									
	Number.....	740	53	164	144	<u>379</u>	(D)	(D)	...	...
	Payroll.....\$1,000..	2,288	157	450	415	<u>1,266</u>	(D)	(D)	...	...
	Production and development workers:									
	Number.....	681	52	145	130	<u>354</u>	(D)	(D)	...	...
	Man-hours.....1,000..	1,277	90	245	251	<u>691</u>	(D)	(D)	...	...
	Wages.....\$1,000..	2,046	154	411	379	<u>1,102</u>	(D)	(D)	...	...
	Value added in mining.....do....	4,085	365	897	802	<u>2,021</u>	(D)	(D)	...	...
	Value of shipments and receipts..do....	5,577	459	1,259	1,101	<u>2,758</u>	(D)	(D)	...	...
	Capital expenditures.....do....	217	40	29	62	<u>86</u>	(D)	(D)	...	...
	Number of producing establish- ments by type of operation, total....	76	29	27	11	6	2	1	...	...
	Quarries only (open quarries).....	75	29	27	11	6	2	...	...	...
	Quarries with crushing plants (open quarries).....	1	...	...	...	...	...	1	...	...
	DIMENSION STONE, NEC SUBINDUSTRY:									
	Number of establishments.....	191	135	20	27	9	...	...	...	...
	All employees:									
	Number.....	983	211	137	351	284	...	...	...	...
	Payroll.....\$1,000..	2,713	541	356	946	870	...	...	...	...
	Production and development workers:									
	Number.....	883	195	119	317	252	...	...	...	...
	Man-hours.....1,000..	1,534	325	189	564	456	...	...	...	...
	Wages.....\$1,000..	2,429	508	313	867	741	...	...	...	...
	Value added in mining.....do....	5,250	1,408	703	1,714	1,425	...	...	...	...
	Value of shipments and receipts..do....	6,113	1,471	950	1,970	1,722	...	...	...	...
	Capital expenditures.....do....	482	282	43	92	65	...	...	...	...
	Number of producing establish- ments by type of operation, total....	185	130	20	26	9	...	...	...	...
	Quarries only:									
	Open quarries.....	180	128	20	25	7	...	...	...	...
	Underground quarry.....	1	1	...	...	...	...	...	...	...
	Quarries with crushing plants (open quarries).....	4	1	...	1	2	...	...	...	...

See footnote at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 4.—Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—							
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees
1421	CRUSHED AND BROKEN STONE:									
	Number of establishments.....	1,957	496	292	525	490	112	36	5	1
	All employees:									
	Number.....	<sup>1</sup> 41,404	907	2,055	7,416	14,441	7,856	5,414	<u>2,240</u>	(D)
	Payroll.....\$1,000..	<sup>1</sup> 188,401	3,101	7,467	29,568	63,592	36,274	28,398	<u>11,481</u>	(D)
	Production and development workers:									
	Number.....	34,865	846	1,790	6,408	12,325	6,821	4,827	<u>1,848</u>	(D)
	Man-hours.....1,000..	75,632	1,517	21,372	13,598	10,120	14,605	10,817	<u>3,603</u>	(D)
	Wages.....\$1,000..	147,266	2,894	6,516	24,618	51,286	29,722	23,518	<u>8,712</u>	(D)
	Value added in mining.....do....	445,788	10,348	21,441	73,681	157,472	87,403	73,153	<u>22,290</u>	(D)
	Value of shipments and receipts..do....	616,076	14,927	28,632	102,609	225,148	119,280	94,986	<u>30,494</u>	(D)
	Capital expenditures.....do....	68,720	2,033	4,427	14,118	28,372	9,397	8,940	<u>1,433</u>	(D)
	CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY:									
	Number of establishments.....	1,458	334	218	422	373	80	26	4	1
	All employees:									
	Number.....	<sup>1</sup> 31,408	604	1,552	5,985	11,038	5,676	<u>5,782</u>	(D)	(D)
	Payroll.....\$1,000..	<sup>1</sup> 143,358	2,017	5,547	23,403	47,765	27,286	<u>30,962</u>	(D)	(D)
	Production and development workers:									
	Number.....	26,372	565	1,353	5,178	9,388	4,868	<u>5,020</u>	(D)	(D)
	Man-hours.....1,000..	57,112	1,026	20,563	11,033	3,129	10,613	<u>10,748</u>	(D)	(D)
	Wages.....\$1,000..	111,255	1,903	4,853	19,369	38,314	22,036	<u>24,780</u>	(D)	(D)
	Value added in mining.....do....	334,368	6,744	14,594	57,978	116,980	66,704	<u>71,368</u>	(D)	(D)
	Value of shipments and receipts..do....	459,037	9,097	20,329	80,710	166,864	89,701	<u>92,336</u>	(D)	(D)
	Capital expenditures.....do....	54,334	1,466	3,214	11,481	23,199	6,368	<u>8,606</u>	(D)	(D)
	Number of producing establish- ments, by type of operation, total...	1,452	332	214	422	373	80	26	4	1
	Quarries only:									
	Open quarries.....	62	37	6	12	7	...	...	...	...
	Underground quarries.....	3	1	...	1	1	...	...	...	...
	Quarries with preparation plants:									
	Open quarries with dimension stone dressing.....	3	...	...	...	2	...	1	...	...
	Open quarries with crushing plants, Open quarries with screening, but no crushing.....	1,272	285	195	375	321	67	24	4	1
	Open quarries with washing, but no crushing or screening.....	12	3	2	5	2	...	...	...	...
	Open quarries with other preparation methods only.....	1	...	...	1	...	...	...	...	...
	Underground quarries with crushing plants.....	7	...	3	4	...	...	...	...	...
	Combination open and underground quarries with crushing plants.....	57	...	2	19	28	7	1	...	...
	Separately operated preparation plants:	18	1	2	3	6	6	...	...	...
	With crushing.....	6	1	2	...	3	...	...	...	...
	With crushing and screening.....	7	...	2	2	3	...	...	...	...
	With other preparation methods only	4	4	...	...	...	...	...	...	...
	CRUSHED AND BROKEN GRANITE SUBINDUSTRY:									
	Number of establishments.....	121	26	14	20	43	15	3	...	...
	All employees:									
	Number.....	<sup>1</sup> 3,309	52	99	289	1,306	1,073	420	...	...
	Payroll.....\$1,000..	<sup>1</sup> 12,975	210	392	1,180	5,095	3,995	1,681	...	...
	Production and development workers:									
	Number.....	2,906	48	88	254	1,159	977	380	...	...
	Man-hours.....1,000..	6,442	90	174	605	2,692	1,909	972	...	...
	Wages.....\$1,000..	10,771	188	353	1,019	4,343	3,465	1,403	...	...
	Value added in mining.....do....	33,493	966	927	3,268	15,338	8,787	4,207	...	...
	Value of shipments and receipts..do....	49,596	1,605	1,355	4,956	23,177	12,649	5,854	...	...
	Capital expenditures.....do....	4,703	156	250	550	2,139	1,331	277	...	...
	Number of producing establish- ments by type of operation, total....	121	26	14	20	43	15	3	...	...
	Quarries only (open quarries).....	13	8	3	1	1	...	...	...	...
	Quarries with preparation plants (crushing, grinding, and pulverizing).....	108	18	11	19	42	15	3	...	...

See footnote at end of table.



Table 4.—Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—							
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees
1421	CRUSHED AND BROKEN STONE—Continued CRUSHED AND BROKEN STONE, NEC, SUBINDUSTRY:									
	Number of establishments.....	378	136	60	83	74	17	7	1	...
	All employees:									
	Number.....	<sup>1</sup> 6,687	251	404	1,142	2,097	1,107	<u>1,452</u>	(D)	...
	Payroll.....\$1,000..	<sup>1</sup> 32,068	874	1,528	4,985	10,732	4,993	<u>7,236</u>	(D)	...
	Production and development workers:									
	Number.....	5,587	233	349	976	1,778	976	<u>1,275</u>	(D)	...
	Man-hours.....1,000..	12,078	401	635	1,960	4,299	2,083	<u>2,700</u>	(D)	...
	Wages.....\$1,000..	25,240	803	1,310	4,230	8,629	4,221	<u>6,047</u>	(D)	...
	Value added in mining.....do....	77,927	2,638	5,920	12,435	25,154	11,912	<u>19,868</u>	(D)	...
	Value of shipments and receipts..do....	107,443	4,225	6,948	16,943	35,107	16,930	<u>27,290</u>	(D)	...
	Capital expenditures.....do....	9,683	411	963	2,087	3,034	1,698	<u>1,490</u>	(D)	...
	Number of producing establish- ments by type of operation, total....	370	129	59	83	74	17	7	1	...
	Quarries only:									
	Open quarries.....	49	34	4	7	4	...	...	...	...
	Underground quarry.....	1	1	...	...	...	...	...	...	...
	Combination open and underground quarries.....	2	...	...	...	1	1	...	...	...
	Quarries with preparation plants:									
	Open quarries with dimension stone dressing.....	6	2	1	...	2	...	...	1	...
	Open quarries with crushing plants.	283	74	49	76	64	15	5	...	...
	Open quarries with screening, but no crushing.....	2	1	1	...	...	...	...	...	...
	Open quarries with other preparation methods only.....	15	12	2	...	1	...	...	...	...
	Open quarry with washing, but no crushing or screening.....	1	...	...	...	...	1	...	...	...
	Underground quarries with crushing plants.....	4	...	1	...	1	...	2	...	...
	Separately operated preparation plants:									
	With crushing only.....	3	2	...	...	1	...	...	...	...
	With screening only.....	1	...	1	...	...	...	...	...	...
	With crushing and screening.....	2	2	...	...	...	...	...	...	...
	With screening and washing.....	1	1	...	...	...	...	...	...	...

<sup>1</sup>Includes figures for separately reported central offices and related facilities. These were not distributed by employment size.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 5.-Industry-Product Analysis: Summary of Industry Shipments and Receipts and Shipments of Primary Products for the United States: 1958 and 1954

Ind. code	Industry and year	Value of shipments and receipts of establishments classified in the industry or subindustry					Value of shipments of primary products of the industry or subindustry shipped by establishments in all industries		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total (produced in all industries)	Produced in this industry or sub-industry	Produced in other industries or sub-industries
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1411	Dimension stone industry.....1958..	15,864	15,275	438	6	145	22,154	15,275	6,879
	.....1954..	18,945	<sup>1</sup> 17,927	(NA)	(NA)	(NA)	28,418	<sup>1</sup> 17,927	<sup>2</sup> 10,491
	Dimension limestone subindustry.....1958..	4,174	4,128	41	5	...	7,139	4,128	3,011
	.....1954..	3,754	3,170	222	6	356	7,255	3,170	4,085
	Dimension granite subindustry..1958..	5,577	5,166	350	1	60	5,864	5,166	698
	.....1954..	5,738	5,649	(D)	...	(D)	10,385	5,649	4,736
	Dimension stone, nec, subindustry.....1958..	6,113	5,979	49	...	85	9,151	5,979	3,172
	.....1954..	9,453	9,108	(NA)	(NA)	(NA)	10,778	9,108	1,670
1421	Crushed and broken stone industry.....1958..	616,076	583,039	18,466	2,988	11,583	731,642	<sup>3</sup> 580,851	<sup>4</sup> 150,791
	.....1954..	465,254	<sup>5</sup> 436,376	(NA)	2,053	(NA)	559,609	<sup>3</sup> <sup>5</sup> 433,938	<sup>4</sup> <sup>6</sup> 125,671
	Crushed and broken limestone subindustry.....1958..	459,037	432,066	14,427	2,426	10,118	577,004	<sup>3</sup> 430,007	<sup>4</sup> 146,997
	.....1954..	328,757	310,967	12,721	1,910	3,159	428,434	<sup>3</sup> 309,072	<sup>4</sup> 119,362
	Crushed and broken granite subindustry.....1958..	49,596	48,467	767	157	205	49,961	48,467	<sup>4</sup> 1,494
	.....1954..	30,875	30,016	616	...	243	<sup>3</sup> 31,766	<sup>7</sup> 30,016	<sup>6</sup> 1,750
	Crushed and broken stone, nec, subindustry.....1958..	107,443	99,376	6,402	405	1,260	<sup>1</sup> 104,677	<sup>3</sup> 99,247	<sup>4</sup> 5,430
	.....1954..	105,622	<sup>8</sup> 94,881	(NA)	143	(NA)	<sup>3</sup> 99,409	<sup>3</sup> 94,881	<sup>6</sup> 4,528

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Excludes the value of rough dimension limestone, valued at less than \$50 thousand, produced as a secondary product in the Rough Dimension Stone, NEC, Subindustry.<sup>2</sup>Includes the value of rough dimension limestone, valued at less than \$50 thousand, produced as a secondary product in the Rough Dimension Stone, NEC, Subindustry.<sup>3</sup>Represents net shipments (gross shipments less the cost of stone received for preparation).<sup>4</sup>Includes the estimated value of crushed and broken stone produced and used in the same manufacturing establishment in the manufacture of cement, lime, and other manufactured products.<sup>5</sup>Excludes crushed and broken stone, other than marble, valued at less than \$500 thousand produced at quarries primarily producing crushed and broken marble.<sup>6</sup>Represents the difference between the figures shown in the two preceding columns.<sup>7</sup>Represents gross shipments.<sup>8</sup>Excludes crushed and broken stone valued at less than \$800 thousand produced at quarries primarily producing some other specified type of stone classified in the Crushed and Broken Stone, NEC, Subindustry.<sup>9</sup>Represents gross shipments. See also footnote 8.



Table 6A.—Primary Products of the Stone Quarrying Industries Shipped by All Establishments Engaged in Mining, by Divisions and States: 1958 and 1954

(Excludes figures for quarries operated by Federal, State, and local Governments)

Product, division, and State	Total shipments (including interplant transfers)			
	1958		1954	
	Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
DIMENSION STONE				
United States:				
All dimension stone (net shipments), total <sup>1</sup> .....	2,957	80,559	2,948	73,695
Rough dimension stone:				
Net shipments <sup>1</sup> .....	1,662	18,613	1,989	26,925
Gross shipments.....	1,780	22,154	2,047	28,418
Dressed dimension stone.....	1,295	61,946	959	46,770
Limestone (net shipments), total <sup>1</sup> .....	1,129	18,331	1,246	19,985
Rough dimension stone:				
Net shipments <sup>1</sup> .....	705	7,009	868	7,180
Gross shipments.....	717	7,139	876	7,255
Dressed dimension stone.....	424	11,322	378	12,805
Granite (net shipments), total <sup>1</sup> .....	807	29,827	738	26,691
Rough dimension stone:				
Net shipments <sup>1</sup> .....	333	3,711	511	9,620
Gross shipments.....	410	5,864	537	10,385
Dressed dimension stone.....	474	26,116	227	17,071
Miscellaneous stone (slate, marble, sandstone, trap rock, and miscellaneous stone), net shipments, total <sup>1</sup> .....	1,021	32,401	964	27,019
Rough dimension stone:				
Net shipments <sup>1</sup> .....	624	7,893	610	10,125
Gross shipments.....	652	9,151	634	10,778
Dressed dimension stone.....	397	24,508	354	16,894
New England:				
All dimension stone (net shipments) <sup>1</sup> .....	530	18,040	(NA)	(NA)
Rough dimension stone (net shipments) <sup>1</sup> .....	169	1,192	(NA)	(NA)
Dressed dimension stone.....	361	16,848	(NA)	(NA)
Granite (net shipments) <sup>1</sup> .....	423	11,123	(NA)	(NA)
Rough dimension stone (net shipments) <sup>1</sup> .....	149	1,074	(NA)	(NA)
Dressed dimension stone.....	274	10,049	(NA)	(NA)
Limestone and other stone (net shipments) <sup>1</sup> .....	107	6,917	(NA)	(NA)
Rough dimension stone (net shipments) <sup>1</sup> .....	20	118	(NA)	(NA)
Dressed dimension stone.....	87	6,799	(NA)	(NA)
Maine, all dimension stone (net shipments) <sup>1</sup> .....	37	1,169	(NA)	(NA)
Vermont, all dimension stone (net shipments) <sup>1</sup> .....	337	11,114	(NA)	(NA)
Massachusetts, all dimension stone (net shipments) <sup>1</sup> .....	138	4,287	(NA)	(NA)
Middle Atlantic:				
All dimension stone (net shipments) <sup>1</sup> .....	436	7,165	(NA)	(NA)
Rough dimension stone (net shipments) <sup>1</sup> .....	308	2,793	(NA)	(NA)
Dressed dimension stone.....	128	4,372	(NA)	(NA)
New York, all dimension stone (net shipments) <sup>1</sup> .....	108	2,109	(NA)	(NA)
Pennsylvania:				
All dimension stone (net shipments) <sup>1</sup> .....	303	4,975	(NA)	(NA)
Rough dimension stone (net shipments) <sup>1</sup> .....	194	1,372	(NA)	(NA)
Dressed dimension stone.....	109	3,603	(NA)	(NA)
East North Central:				
All dimension stone (net shipments) <sup>1</sup> .....	990	19,852	(NA)	(NA)
Rough dimension stone (net shipments) <sup>1</sup> .....	566	7,174	(NA)	(NA)
Dressed dimension stone.....	424	12,678	(NA)	(NA)

See footnotes at end of table.

Table 6A.—Primary Products of the Stone Quarrying Industries Shipped by All Establishments Engaged in Mining, by Divisions and States: 1958 and 1954—Continued

Product, division, and State	Total shipments (including interplant transfers)			
	1958		1954	
	Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
DIMENSION STONE--Continued				
East North Central--Continued				
Limestone (net shipments) <sup>1</sup> .....	767	13,403	(NA)	(NA)
Rough dimension stone (net shipments) <sup>1</sup> .....	435	5,182	(NA)	(NA)
Dressed dimension stone.....	332	8,221	(NA)	(NA)
Granite and other stone (net shipments) <sup>1</sup> .....	223	6,449	(NA)	(NA)
Rough dimension stone (net shipments) <sup>1</sup> .....	131	1,992	(NA)	(NA)
Dressed dimension stone.....	92	4,457	(NA)	(NA)
Ohio, all dimension stone (net shipments) <sup>1</sup> .....	115	3,588	(NA)	(NA)
Indiana:				
All dimension stone (net shipments) <sup>1</sup> .....	743	13,427	(NA)	(NA)
Rough dimension stone (net shipments) <sup>1</sup> .....	423	5,455	(NA)	(NA)
Dressed dimension stone.....	320	7,972	(NA)	(NA)
Wisconsin, all dimension stone (net shipments) <sup>1</sup> .....	97	2,393	(NA)	(NA)
West North Central:				
All dimension stone (net shipments) <sup>1</sup> .....	190	12,911	(NA)	(NA)
Limestone (net shipments) <sup>1</sup> .....	126	2,051	(NA)	(NA)
Granite (net shipments) <sup>1</sup> .....	44	8,417	(NA)	(NA)
Other stone (net shipments) <sup>1</sup> .....	20	2,443	(NA)	(NA)
Minnesota, all dimension stone (net shipments) <sup>1</sup> .....	71	7,793	(NA)	(NA)
South Dakota, all dimension stone (net shipments) <sup>1</sup> .....	15	1,799	(NA)	(NA)
South Atlantic:				
All dimension stone (net shipments) <sup>1</sup> .....	370	9,786	(NA)	(NA)
Rough dimension stone (net shipments) <sup>1</sup> .....	198	2,872	(NA)	(NA)
Dressed dimension stone.....	172	6,914	(NA)	(NA)
Granite (net shipments) <sup>1</sup> .....	245	5,911	(NA)	(NA)
Limestone and other stone (net shipments) <sup>1</sup> .....	125	3,875	(NA)	(NA)
North Carolina, all dimension stone (net shipments) <sup>1</sup> .....	89	2,185	(NA)	(NA)
Georgia, all dimension stone (net shipments) <sup>1</sup> .....	223	6,352	(NA)	(NA)
East South Central:				
All dimension stone (net shipments) <sup>1</sup> .....	164	6,710	(NA)	(NA)
Rough dimension stone (net shipments) <sup>1</sup> .....	125	2,120	(NA)	(NA)
Dressed dimension stone.....	39	4,590	(NA)	(NA)
Tennessee, all dimension stone (net shipments) <sup>1</sup> .....	125	5,155	(NA)	(NA)
West South Central:				
All dimension stone (net shipments) <sup>1</sup> .....	123	3,257	(NA)	(NA)
Granite (net shipments) <sup>1</sup> .....	37	2,173	(NA)	(NA)
Limestone and other stone (net shipments) <sup>1</sup> .....	86	1,084	(NA)	(NA)
Texas, all dimension stone (net shipments) <sup>1</sup> .....	66	2,183	(NA)	(NA)
Mountain, all dimension stone (net shipments) <sup>1</sup> .....	70	900	(NA)	(NA)
Pacific, all dimension stone (net shipments) <sup>1</sup> .....	84	1,938	(NA)	(NA)
California, all dimension stone (net shipments) <sup>1</sup> .....	53	1,424	(NA)	(NA)

See footnotes at end of table.



Table 6A.—Primary Products of the Stone Quarrying Industries, Shipped by All Establishments Engaged in Mining, by Divisions and States: 1958 and 1954—Continued

Product, division, and State	1958					1954				
	Net total produced and used or shipped	Produced and used in the same establishment in the manufacture of--		Net shipments including interplant transfers <sup>2</sup>		Net total produced and used or shipped	Produced and used in the same establishment in the manufacture of--		Net shipments including interplant transfers <sup>2</sup>	
		Hydraulic cement	Quicklime and hydrated lime	Quantity	Value		Hydraulic cement	Quicklime and hydrated lime	Quantity <sup>3</sup>	Value <sup>3</sup>
CRUSHED AND BROKEN STONE										
United States:										
Crushed and broken stone, total.....	<sup>4</sup> 482,406	65,871	12,986	403,054	612,616	369,104	59,150	10,839	299,115	459,609
Limestone.....	<sup>4</sup> 387,907	65,674	12,986	309,038	458,881	302,563	58,988	10,839	232,736	328,434
Granite.....	<sup>5</sup> 33,812	...	...	33,812	49,961	22,780	...	...	22,780	31,766
Miscellaneous stone (slate, marble, sandstone, trap rock, and other stone).....	<sup>4</sup> 60,687	197	...	60,204	103,774	43,761	162	...	43,599	99,409
New England:										
Crushed and broken stone, total.....	<sup>4</sup> 9,927	(D)	(D)	8,598	17,864	(D)	(D)	345	7,149	16,442
Limestone.....	1,893	(D)	(D)	(D)	2,386	(D)	(D)	345	382	1,169
Granite.....	1,152	...	...	1,152	2,037	923	...	...	923	1,523
Miscellaneous stone.....	<sup>4</sup> 6,882	...	...	(D)	13,441	5,844	...	...	5,844	13,750
Maine, crushed and broken stone.....	968	(D)	(D)	(D)	1,005	(D)	(D)	(D)	517	1,137
New Hampshire and Rhode Island, crushed and broken stone.....	<sup>4</sup> 197	...	...	<sup>4</sup> 197	483	146	...	...	146	382
Vermont, crushed and broken stone.....	416	...	(D)	(D)	3,367	(D)	...	(D)	486	4,544
Massachusetts:										
Crushed and broken stone, total.....	<sup>4</sup> 3,636	...	404	<sup>4</sup> 3,232	6,148	3,481	...	246	3,235	5,464
Limestone.....	792	...	404	388	1,019	457	...	246	211	771
Granite.....	672	...	...	672	1,287	666	...	...	666	1,089
Miscellaneous stone.....	<sup>4</sup> 2,172	...	...	<sup>4</sup> 2,172	3,842	2,358	...	...	2,358	3,604
Connecticut:										
Crushed and broken stone, total.....	4,710	...	(D)	(D)	6,861	(D)	...	(D)	2,765	4,915
Limestone and granite.....	569	...	(D)	(D)	1,006	(D)	...	(D)	86	(NA)
Miscellaneous stone.....	4,141	...	...	4,141	5,855	(NA)	...	...	(NA)	(NA)
Middle Atlantic:										
Crushed and broken stone, total.....	<sup>4</sup> 77,822	(D)	(D)	<sup>4</sup> 63,287	124,132	(D)	13,291	(D)	53,096	103,667
Limestone.....	63,331	(D)	(D)	48,832	89,020	(NA)	13,291	(D)	(NA)	(NA)
Granite.....	484	...	...	484	1,216	(NA)	...	...	(NA)	(NA)
Miscellaneous stone.....	<sup>4</sup> 14,007	<sup>4</sup> 36	...	<sup>4</sup> 13,971	33,896	(NA)	...	...	(NA)	(NA)
New York:										
Crushed and broken stone, total.....	<sup>4</sup> 24,760	(D)	(D)	<sup>4</sup> 20,658	41,667	(D)	2,723	(D)	17,761	28,214
Limestone.....	22,072	(D)	(D)	17,970	34,887	(D)	2,723	(D)	14,944	23,332
Granite and miscellaneous stone.....	<sup>4</sup> 2,688	...	...	<sup>4</sup> 2,688	6,780	2,817	...	...	2,817	4,882
New Jersey, crushed and broken stone.....	7,443	...	...	7,443	18,402	7,115	...	...	7,115	21,414
Pennsylvania:										
Crushed and broken stone, total.....	<sup>4</sup> 45,619	8,619	1,677	35,184	64,063	40,636	10,568	1,848	28,220	54,039
Limestone.....	<sup>4</sup> 40,646	<sup>4</sup> 8,722	1,677	30,247	51,210	36,669	10,568	1,848	24,253	43,141
Miscellaneous stone.....	<sup>4</sup> 4,973	<sup>4</sup> 36	...	4,937	12,853	3,967	...	...	3,967	10,898
East North Central:										
Crushed and broken stone, total.....	122,007	10,973	3,838	107,196	147,497	94,306	8,273	3,445	82,588	130,375
Limestone.....	<sup>6</sup> 117,370	<sup>6</sup> 10,973	3,838	102,559	137,900	93,019	8,273	3,445	81,301	114,148
Granite and miscellaneous stone.....	<sup>6</sup> 4,637	(8)	...	4,637	9,597	1,287	...	...	1,287	16,227
Ohio:										
Crushed and broken stone.....	35,219	3,886	3,688	27,645	42,768	32,172	3,126	3,325	25,721	37,938
Limestone.....	<sup>6</sup> 34,414	<sup>6</sup> 3,856	3,688	26,870	39,277	31,797	3,126	3,325	25,346	35,877
Indiana:										
Crushed and broken stone.....	14,247	1,662	...	12,585	17,112	10,752	1,721	...	9,031	12,189
Limestone.....	13,637	1,662	...	11,975	16,022	10,731	1,721	...	9,010	12,127
Illinois:										
Crushed and broken stone.....	35,135	(D)	(D)	32,439	48,969	(D)	2,522	(D)	22,582	36,137
Limestone.....	34,813	(D)	(D)	32,117	48,495	(D)	2,522	(D)	22,546	35,810

See footnotes at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 6A.—Primary Products of the Stone Quarrying Industries Shipped by All Establishments Engaged in Mining, by Divisions and States: 1958 and 1954—Continued

Product, division, and State	1958					1954				
	Net total produced and used or shipped	Produced and used in the same establishment in the manufacture of--		Net shipments including interplant transfers <sup>2</sup>		Net total produced and used or shipped	Produced and used in the same establishment in the manufacture of--		Net shipments including interplant transfers <sup>2</sup>	
		Hydraulic cement	Quicklime and hydrated lime	Quantity	Value		Hydraulic cement	Quicklime and hydrated cement	Quantity <sup>3</sup>	Value <sup>3</sup>
	(1,000 short tons)	(1,000 short tons)	(1,000 short tons)	(1,000 short tons)	(\$1,000)	(1,000 short tons)	(1,000 short tons)	(1,000 short tons)	(1,000 short tons)	(\$1,000)
CRUSHED AND BROKEN STONE--Continued										
East North Central--Continued										
Michigan:										
Crushed and broken stone.....	25,341	(D)	...	(D)	22,822	17,754	904	...	16,850	21,554
Limestone.....	25,199	(D)	...	(D)	22,642	17,749	904	...	16,845	21,506
Wisconsin:										
Crushed and broken stone, total.....	12,065	...	(D)	(D)	15,826	(D)	...	(D)	8,404	22,557
Limestone.....	9,277	...	(D)	(D)	11,464	(D)	...	(D)	7,554	8,828
Granite and miscellaneous stone.....	2,788	...	...	2,788	4,362	850	...	...	850	13,729
West North Central:										
Crushed and broken stone, total.....	67,109	8,837	2,535	55,737	80,107	(D)	(D)	(D)	38,171	55,485
Limestone.....	<sup>6</sup> 63,747	<sup>6</sup> 8,837	2,535	52,375	75,248	(D)	(D)	(D)	34,717	50,448
Granite and miscellaneous stone.....	<sup>6</sup> 3,362	( <sup>6</sup> )	...	3,362	4,859	3,454	...	...	3,454	5,037
Minnesota:										
Crushed and broken stone.....	4,355	...	...	4,355	6,731	2,787	...	...	2,787	3,878
Limestone.....	3,806	...	...	3,806	5,700	(NA)	...	...	(NA)	(NA)
Iowa, crushed and broken stone.....	21,706	2,123	...	19,583	27,399	14,848	2,720	...	12,128	17,263
Missouri:										
Crushed and broken stone.....	24,554	(D)	(D)	18,980	27,755	17,193	2,755	2,062	12,376	18,076
Limestone.....	23,864	(D)	(D)	18,094	26,855	16,796	2,755	2,062	11,979	17,863
North Dakota and South Dakota:										
Crushed and broken stone.....	1,635	...	(D)	(D)	2,439	(D)	...	(D)	1,351	2,726
Limestone.....	809	...	(D)	(D)	1,031	(D)	...	(D)	615	1,010
Nebraska:										
Crushed and broken stone.....	3,508	(D)	...	(D)	3,851	(D)	(D)	...	1,845	3,400
Limestone.....	3,503	(D)	...	(D)	3,840	(D)	(D)	...	(NA)	(NA)
Kansas:										
Crushed and broken stone.....	11,351	2,534	...	8,817	11,932	10,159	2,475	...	7,684	10,142
Limestone.....	<sup>6</sup> 11,009	<sup>6</sup> 2,534	...	8,475	11,242	9,229	2,475	...	6,754	9,492
South Atlantic:										
Crushed and broken stone, total.....	<sup>4</sup> 77,872	5,977	910	<sup>4</sup> 70,985	117,187	54,358	4,934	1,275	48,149	81,337
Limestone.....	46,697	5,919	910	39,868	62,820	(D)	(D)	1,275	(NA)	(NA)
Granite.....	<sup>4</sup> 23,482	...	...	<sup>4</sup> 23,482	35,741	(D)	...	...	(D)	(D)
Miscellaneous stone.....	7,693	58	...	7,635	18,626	(D)	(D)	...	(NA)	(NA)
Delaware and Maryland:										
Crushed and broken stone.....	7,468	(D)	(D)	6,205	12,561	<sup>6</sup> 4,113	(D)	(D)	74,101	78,434
Limestone.....	6,136	(D)	(D)	4,884	9,963	<sup>6</sup> 4,041	(D)	(D)	73,129	76,224
Virginia:										
Crushed and broken stone, total.....	<sup>4</sup> 14,738	(D)	(D)	12,323	21,212	(D)	(D)	725	8,240	13,743
Limestone.....	10,571	(D)	(D)	(D)	14,263	(D)	(D)	725	(NA)	(NA)
Granite.....	<sup>4</sup> 2,944	...	...	(D)	4,670	1,521	...	...	1,521	2,130
Miscellaneous stone.....	1,223	...	...	1,223	2,279	(NA)	(NA)	...	(NA)	(NA)
West Virginia:										
Crushed and broken stone.....	5,228	(D)	...	(D)	9,074	(D)	(D)	(D)	7,971	12,959
Limestone.....	5,052	(D)	...	(D)	8,692	(D)	(D)	(D)	5,813	9,278
North Carolina:										
Crushed and broken stone, total.....	11,505	...	...	11,505	16,436	8,930	...	...	8,930	12,963
Limestone.....	2,218	...	...	2,218	3,122	2,040	...	...	2,040	2,630
Granite.....	7,937	...	...	7,937	11,633	6,426	...	...	6,426	9,170
Miscellaneous stone.....	1,350	...	...	1,350	1,681	464	...	...	464	1,163

See footnotes at end of table.



Table 6A.—Primary Products of the Stone Quarrying Industries Shipped by All Establishments Engaged in Mining, by Divisions and States: 1958 and 1954—Continued

Product, division, and State	1958					1954				
	Net total produced and used or shipped	Produced and used in the same establishment in the manufacture of--		Net shipments including interplant transfers <sup>2</sup>		Net total produced and used or shipped	Produced and used in the same establishment in the manufacture of--		Net shipments including interplant transfers <sup>2</sup>	
		Hydraulic cement	Quicklime and hydrated lime	Quantity	Value		Hydraulic cement	Quicklime and hydrated lime	Quantity <sup>3</sup>	Value <sup>3</sup>
(1,000 short tons)	(1,000 short tons)	(1,000 short tons)	(1,000 short tons)	(\$1,000)	(1,000 short tons)	(1,000 short tons)	(1,000 short tons)	(1,000 short tons)	(\$1,000)	
CRUSHED AND BROKEN STONE--Continued										
South Atlantic--Continued										
South Carolina:										
Crushed and broken stone.....	4,869	(D)	...	(D)	6,722	(D)	(D)	...	72,749	74,426
Granite.....	4,084	...	...	4,084	6,283	2,227	...	...	2,227	3,168
Georgia:										
Crushed and broken stone.....	12,453	(D)	...	(D)	25,118	5,444	(D)	(D)	4,919	13,618
Limestone.....	1,724	(D)	...	(D)	3,852	1,088	(D)	(D)	563	2,376
Granite.....	8,445	...	...	8,445	12,961	3,220	...	...	3,220	6,049
Florida, crushed and broken stone.....	21,611	(D)	...	(D)	26,064	(D)	(D)	...	11,239	15,194
East South Central:										
Crushed and broken stone, total.....	44,444	4,404	1,168	38,872	53,802	(D)	5,116	(D)	24,482	34,719
Limestone.....	<sup>6</sup> 43,529	<sup>6</sup> 4,404	1,168	37,957	52,089	(D)	5,116	(D)	(D)	(NA)
Granite and miscellaneous stone.....	<sup>6</sup> 915	( <sup>6</sup> )	...	915	1,713	(D)	...	...	(D)	(NA)
Kentucky:										
Crushed and broken stone.....	15,385	...	...	15,385	21,057	10,603	...	...	10,603	14,417
Limestone.....	15,279	...	...	15,279	20,873	(NA)	...	...	(NA)	(NA)
Tennessee:										
Crushed and broken stone.....	17,474	(D)	(D)	15,605	21,033	(D)	2,111	(D)	9,769	13,099
Limestone.....	16,821	(D)	(D)	14,952	20,110	(D)	2,111	(D)	9,603	12,744
Alabama and Mississippi:										
Crushed and broken stone.....	11,585	(D)	(D)	7,882	11,712	7,548	3,005	433	4,110	7,203
Limestone.....	<sup>6</sup> 11,429	(D)	(D)	7,726	11,106	(NA)	3,005	433	(NA)	(NA)
West South Central:										
Crushed and broken stone, total.....	31,540	6,754	1,121	23,665	29,359	(D)	(D)	(D)	16,717	25,604
Limestone.....	<sup>6</sup> 26,605	<sup>6</sup> 6,754	1,121	18,730	23,135	(D)	(D)	(D)	(NA)	(NA)
Granite and miscellaneous stone.....	<sup>6</sup> 4,935	( <sup>6</sup> )	...	4,935	6,224	(NA)	...	...	(NA)	(NA)
Arkansas and Louisiana, crushed and broken stone.....	5,188	(D)	(D)	(D)	5,300	(D)	(D)	(D)	<sup>6</sup> 3,108	<sup>6</sup> 9,139
Oklahoma:										
Crushed and broken stone.....	9,041	(D)	...	(D)	8,552	<sup>6</sup> 8,230	<sup>6</sup> 1,706	...	<sup>6</sup> 6,524	<sup>6</sup> 6,501
Limestone.....	8,007	(D)	...	(D)	8,035	(NA)	<sup>6</sup> 1,706	...	(NA)	(NA)
Texas:										
Crushed and broken stone, total.....	17,311	(D)	(D)	11,318	15,507	12,385	4,814	486	7,085	9,964
Limestone.....	16,067	(D)	(D)	10,074	13,066	11,701	4,814	486	6,401	8,880
Granite and miscellaneous stone.....	1,244	...	...	1,244	2,441	684	...	...	684	1,084
Mountain:										
Crushed and broken stone, total.....	<sup>4</sup> 18,901	<sup>4</sup> 3,779	531	14,591	13,549	9,487	2,474	274	6,739	8,195
Limestone.....	7,164	3,727	531	2,906	6,012	(NA)	(NA)	274	(NA)	(NA)
Granite.....	102	...	...	102	247	1,107	...	...	1,107	808
Miscellaneous stone.....	<sup>4</sup> 11,635	<sup>4</sup> 52	...	11,583	7,290	(NA)	(NA)	...	(NA)	(NA)
Montana, crushed and broken stone.....	889	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,705	1,399
Idaho, crushed and broken stone.....	887	(D)	...	(D)	874	(D)	(D)	...	790	1,227
Wyoming, crushed and broken stone.....	599	(D)	...	(D)	864	(D)	(D)	...	927	1,213
Colorado:										
Crushed and broken stone.....	<sup>4</sup> 2,774	(D)	...	(D)	2,390	(D)	(D)	...	431	1,231
Limestone.....	2,729	(D)	...	(D)	2,285	(D)	(D)	...	(NA)	(NA)

See footnotes at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 6A.—Primary Products of the Stone Quarrying Industries Shipped by All Establishments Engaged in Mining, by Divisions and States: 1958 and 1954—Continued

Product, division, and State	1958					1954				
	Net total produced and used or shipped	Produced and used in the same establishment in the manufacture of--		Net shipments including interplant transfers <sup>2</sup>		Net total produced and used or shipped	Produced and used in the same establishment in the manufacture of--		Net shipments including interplant transfers <sup>2</sup>	
		Hydraulic cement	Quicklime and hydrated lime	Quantity	Value		Hydraulic cement	Quicklime and hydrated lime	Quantity <sup>3</sup>	Value <sup>3</sup>
	(1,000 short tons)	(1,000 short tons)	(1,000 short tons)	(1,000 short tons)	(\$1,000)	(1,000 short tons)	(1,000 short tons)	(1,000 short tons)	(1,000 short tons)	(\$1,000)
CRUSHED AND BROKEN STONE--Continued										
Mountain--Continued										
New Mexico, crushed and broken stone.....	637	...	(D)	(D)	771	(NA)				
Arizona:										
Crushed and broken stone.....	1,206	(D)	(D)	318	805	(NA)	(D)	(D)	702	638
Limestone.....	1,070	(D)	(D)	182	595	604	(D)	(D)	51	82
Utah, crushed and broken stone.....	11,049	(D)	(D)	(D)	(D)	1,191	(D)	(D)	769	1,003
Nevada, crushed and broken stone.....	860	...	(D)	(D)	751	(D)	...	(D)	1,415	1,484
Pacific:										
Crushed and broken stone, total.....	32,784	12,070	461	20,253	29,119	(D)	(D)	(D)	16,327	28,277
Limestone.....	17,071	12,070	461	4,540	8,093	(NA)	(D)	(D)	(NA)	(NA)
Granite.....	4,520	...	...	4,520	6,114	(NA)	...	...	(NA)	(NA)
Miscellaneous stone.....	11,193	...	...	11,193	14,912	(NA)	...	...	(NA)	(NA)
Washington:										
Crushed and broken stone, total.....	3,827	(D)	...	(D)	4,408	(D)	1,037	(D)	2,762	4,217
Limestone.....	1,595	(D)	...	(D)	1,626	(D)	1,037	(D)	371	1,022
Granite and miscellaneous stone.....	2,232	...	...	2,232	2,782	2,391	...	...	2,391	3,195
Oregon:										
Crushed and broken stone, total.....	3,711	(D)	...	(D)	4,489	(D)	(D)	...	2,482	3,204
Limestone.....	1,539	(D)	...	(D)	1,316	(NA)	(D)	...	(NA)	(NA)
Granite and miscellaneous stone.....	2,172	...	...	2,172	3,173	(NA)	...	...	(NA)	(NA)
California:										
Crushed and broken stone, total.....	25,246	11,020	461	13,765	20,222	18,745	7,323	339	11,083	20,856
Limestone.....	13,937	11,020	461	2,456	5,151	11,169	7,323	339	3,507	6,417
Granite.....	3,966	...	...	3,966	5,401	(NA)	...	...	(NA)	(NA)
Miscellaneous stone.....	7,343	...	...	7,343	9,670	(NA)	...	...	(NA)	(NA)
Alaska and Hawaii, total.....	2,186	...	(D)	(D)	94,033	(NA)	(NA)	(NA)	(NA)	(NA)
Limestone and granite.....	453	...	(D)	(D)	683	(NA)	(NA)	(NA)	(NA)	(NA)
Miscellaneous stone.....	1,733	...	...	1,733	3,350	(NA)	(NA)	(NA)	(NA)	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Represents gross shipments, including interplant transfers, less rough stone received from other establishments for dressing at dressing plants operated in conjunction with a quarry.<sup>2</sup>Represents gross shipments, including interplant transfers, less broken stone received from other establishments for crushing, screening, or washing. For 1958, stone reported received for crushing, screening, or washing in the United States as a whole was: for all stone, 2,803 thousand tons, costing \$2,188 thousand; for limestone, 2,489 thousand tons, costing \$2,059 thousand; and for miscellaneous stone, 314 thousand tons, costing \$129 thousand.<sup>3</sup>Except for United States totals, represents shipments by crushed and broken stone quarries only, including quarries operated as parts of manufacturing plants, and for the specified types of stone represents only quantity for quarries primarily engaged in producing such stone. For the United States such quantity totals are: all stone, 293,418 thousand tons; limestone, 229,924; and granite, 21,958. Except for United States totals, value represents the gross shipments of primary products and the value of secondary products and services. For the United States as a whole the value of secondary products and services was: for the Crushed and Broken Limestone Subindustry, \$17,790 thousand; for the Crushed and Broken Granite Subindustry, \$859 thousand; and for the Crushed and Broken Stone, NEC, Subindustry, \$10,741 thousand.<sup>4</sup>Includes some stone mined and used in the same establishment in making such products as asphalt and tar paving mixtures, nonclay refractories, and ready-mixed concrete. For the United States as a whole such uses amounted to 495 thousand tons, and in the United States total, the figures for such granite are included with those for such miscellaneous stone.<sup>5</sup>Excludes granite produced and used in the same establishment. This is combined with the figures for miscellaneous stone.<sup>6</sup>The figures for Limestone include, figures for Granite and Miscellaneous stone exclude, less than 40 thousand tons of stone other than limestone used in making cement.<sup>7</sup>Figures for Delaware are included with those for South Carolina.<sup>8</sup>Figures for Louisiana are included with those for Oklahoma.<sup>9</sup>Includes the estimated value of stone produced and used in the same establishment in making lime.



Table 6B.—Shipments of Primary Products of the Dimension Stone and Crushed and Broken Stone Industries,  
Distributed by Value Per Ton: 1958

Product and average value per ton f.o.b. quarry or plant <sup>1</sup>	Quantity shipped		Value of shipments	
	Short tons (1,000)	Percent of total quantity	Value (\$1,000)	Percent of total value
DIMENSION STONE				
Rough dimension limestone, total.....	717	100.0	7,139	100.0
Less than \$1.80.....	30	4.2	36	0.5
\$1.80-\$2.29.....	61	8.5	134	1.9
\$2.29-\$3.79.....	87	12.1	295	4.1
\$3.80-\$5.44.....	36	5.0	161	2.3
\$5.45-\$6.94.....	81	11.3	540	7.6
\$6.95-\$9.99.....	38	5.3	317	4.4
\$10.00-\$11.10.....	187	26.1	1,960	27.5
\$11.11-\$12.50.....	67	9.4	793	11.1
\$12.51-\$17.90.....	44	6.1	709	9.9
\$17.91-\$20.40.....	35	4.9	665	9.3
\$20.41-\$29.40.....	50	7.0	1,447	20.3
\$29.41 and over.....	1	0.1	82	1.1
Rough dimension granite, total.....	410	100.0	5,864	100.0
Less than \$2.60.....	37	9.0	84	1.4
\$2.60-\$5.44.....	118	28.8	497	8.5
\$5.45-\$9.99.....	122	29.8	795	13.5
\$10.00-\$15.90.....	57	13.9	873	14.9
\$15.91-\$33.40.....	37	9.0	877	15.0
\$33.41-\$42.90.....	23	5.6	928	15.8
\$42.91-\$61.40.....	6	1.5	346	5.9
\$61.41-\$88.40.....	4	1.0	326	5.6
\$88.41-\$141.00.....	3	0.7	370	6.3
\$141.01 and over.....	3	0.7	768	13.1
Rough dimension stone, nec, total.....	652	100.0	9,151	100.0
Less than \$2.30.....	19	2.9	33	0.4
\$2.30-\$4.29.....	78	12.0	274	3.0
\$4.30-\$5.44.....	93	14.3	458	5.0
\$5.45-\$6.14.....	70	10.7	428	4.7
\$6.15-\$7.84.....	67	10.3	466	5.1
\$7.85-\$9.99.....	54	8.3	496	5.4
\$10.00-\$15.90.....	41	6.3	500	5.5
\$15.91-\$17.90.....	58	8.9	1,026	11.2
\$17.91-\$20.40.....	22	3.4	441	4.8
\$20.41-\$22.90.....	56	8.6	1,272	13.9
\$22.91-\$25.90.....	18	2.8	458	5.0
\$25.91-\$29.40.....	17	2.6	494	5.4
\$29.41-\$37.90.....	23	3.5	827	9.0
\$37.91-\$42.90.....	19	2.9	777	8.5
\$42.91-\$69.40.....	8	1.2	419	4.6
\$69.41-\$78.40.....	6	0.9	458	5.0
\$78.41 and over.....	3	0.4	324	3.5
CRUSHED AND BROKEN STONE				
Crushed and broken limestone, total.....	311,156	100.0	460,440	100.0
Less than \$0.62.....	2,741	0.9	1,592	0.3
\$0.62-\$0.69.....	3,639	1.2	2,416	0.5
\$0.70-\$0.78.....	3,042	1.0	2,259	0.5
\$0.79-\$0.88.....	17,524	5.6	14,817	3.2
\$0.89-\$0.99.....	17,898	5.7	16,994	3.7
\$1.00-\$1.11.....	27,850	8.9	29,414	6.4
\$1.12-\$1.25.....	45,577	14.7	55,003	12.0
\$1.26-\$1.41.....	55,207	17.7	74,214	16.1
\$1.42-\$1.59.....	53,154	17.1	80,071	17.4
\$1.60-\$1.79.....	33,962	10.9	57,573	12.5
\$1.80-\$2.04.....	25,389	8.2	48,513	10.5
\$2.05-\$2.29.....	6,425	2.1	13,942	3.0
\$2.30-\$2.59.....	7,335	2.3	17,841	3.9
\$2.60-\$2.94.....	5,449	1.7	14,708	3.2
\$2.95-\$3.34.....	1,904	0.6	5,763	1.3
\$3.35-\$3.79.....	497	0.2	1,781	0.4
\$3.80-\$4.29.....	870	0.3	3,613	0.8
\$4.30-\$4.84.....	818	0.3	3,779	0.8
\$4.85-\$6.14.....	526	0.2	2,898	0.6
\$6.15-\$7.84.....	625	0.2	4,014	0.9
\$7.85 and over.....	724	0.2	9,235	2.0

See footnotes at end of table.

Table 6B.—Shipments of Primary Products of the Dimension Stone and Crushed and Broken Stone Industries, Distributed by Value Per Ton: 1958—Continued

Product and average value per ton f.o.b. quarry or plant <sup>1</sup>	Quantity shipped		Value of shipments	
	Short tons (1,000)	Percent of total quantity	Value (\$1,000)	Percent of total value
CRUSHED AND BROKEN STONE--Continued				
Crushed and broken granite, total.....	33,812	100.0	49,961	100.0
Less than \$0.62.....	650	1.9	379	0.8
\$0.62-\$0.99.....	1,493	4.4	1,291	2.6
\$1.00-\$1.11.....	2,294	6.8	2,326	4.7
\$1.12-\$1.25.....	5,526	16.4	6,821	13.6
\$1.26-\$1.41.....	6,552	19.4	8,919	17.8
\$1.42-\$1.59.....	10,010	29.6	15,253	30.5
\$1.60-\$1.79.....	3,826	11.3	6,408	12.8
\$1.80-\$2.04.....	1,115	3.3	2,137	4.3
\$2.05-\$2.29.....	1,163	3.4	2,493	5.0
\$2.30-\$3.54.....	950	2.8	2,826	5.7
\$3.80-\$6.14.....	233	0.7	1,108	2.2
Crushed and broken stone, nec, total.....	60,518	100.0	103,903	100.0
Less than \$0.62.....	11,941	19.7	5,619	5.4
\$0.62-\$0.78.....	2,154	3.6	1,439	1.4
\$0.79-\$0.99.....	3,114	5.1	2,825	2.7
\$1.00-\$1.11.....	4,774	7.9	5,023	4.8
\$1.12-\$1.25.....	4,168	6.9	4,923	4.7
\$1.26-\$1.41.....	5,027	8.3	6,858	6.6
\$1.42-\$1.59.....	6,189	10.2	9,353	9.0
\$1.60-\$1.79.....	4,930	8.1	8,314	8.0
\$1.80-\$2.04.....	4,387	7.3	8,460	8.2
\$2.05-\$2.29.....	6,707	11.1	14,485	13.9
\$2.30-\$2.59.....	3,109	5.1	7,722	7.4
\$2.60-\$2.94.....	867	1.4	2,331	2.3
\$2.95-\$3.54.....	516	0.9	1,637	1.6
\$3.55-\$4.29.....	397	0.7	1,475	1.4
\$4.30-\$5.44.....	331	0.6	1,677	1.6
\$5.45-\$6.94.....	475	0.8	2,851	2.8
\$6.95-\$8.84.....	291	0.5	2,120	2.1
\$8.85-\$9.99.....	536	0.9	4,806	4.6
\$10.00-\$12.59.....	69	0.1	752	0.7
\$12.60-\$15.99.....	138	0.2	2,093	2.0
\$16.00-\$20.49.....	143	0.2	2,716	2.6
\$20.50 and over.....	255	0.4	6,424	6.2

<sup>1</sup>The "average values" are based on the entire shipments of the specified product by each establishment. Thus they are representative of varied average prices among establishments but not of variations within an establishment.

Table 7.—Supplies Used in the Dimension Stone and Crushed and Broken Stone Industries: 1958 and 1954

(Detailed figures for the quantity and cost of supplies used were not obtained for these industries. For the total cost of supplies used, see tables 3A and 3B. For the quantity and cost of stone received for preparation, see table 6A. For the quantity and total cost of purchased fuels and electricity used, see table 3.)



Table 8.—General Statistics for Establishments in the United States Classified by Output per Man-hour, by Selected Types of Operation: 1958

Subindustry, type of operation, and tons per man-hour <sup>1</sup>	Estab- lishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi- tures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
DIMENSION LIMESTONE:									
All establishments, total.....	68	583	2,120	491	879	1,592	3,741	4,174	502
Less than 0.20.....	5	290	991	261	516	879	1,895	2,077	197
0.20-0.29.....	9								
0.30-0.39.....	5								
0.40-0.49.....	3								
0.50-0.59.....	3								
0.60 and over.....	5	75	246	71	89	224	545	557	79
Undistributed <sup>2</sup> .....	38	91	474	50	73	122	428	528	215
DIMENSION GRANITE:									
All establishments, total.....	76	740	2,288	681	1,277	2,046	4,085	5,577	217
Less than 0.05.....	10	96	320	89	176	293	765	960	25
0.05-0.09.....	11	160	431	154	297	414	662	1,111	28
0.10-0.19.....	14	125	316	111	207	266	474	625	16
0.20-0.29.....	9	55	138	48	80	125	327	460	6
0.30-0.39.....	5	203	769	185	351	660	1,192	1,584	67
0.40-0.49.....	3								
0.50-0.59.....	2								
0.60 and over.....	6								
Undistributed <sup>2</sup> .....	16								
DIMENSION STONE, NEC:									
All establishments, total.....	191	983	2,713	883	1,534	2,429	5,250	6,113	482
Less than 0.05.....	12	165	492	159	312	463	488	597	26
0.05-0.09.....	11	118	318	102	203	297	473	515	44
0.10-0.19.....	22	199	487	174	318	449	818	911	26
0.20-0.29.....	9	79	227	66	99	172	334	402	45
0.30-0.39.....	5	76	186	66	100	156	556	686	68
0.40-0.49.....	8								
0.50-0.59.....	7								
0.60-0.69.....	4								
0.70-0.79.....	6								
0.80-0.89.....	1	54	225	50	91	194	361	408	28
1.00-1.49.....	11	61	153	54	84	136	579	656	42
1.50 and over.....	87	153	430	148	227	393	1,140	1,420	179
Undistributed <sup>2</sup> .....									
CRUSHED AND BROKEN LIMESTONE:									
All establishments, total.....	1,458	31,408	143,358	26,372	57,112	111,255	334,368	459,037	54,334
Less than 0.40.....	15	281	1,066	257	601	902	2,252	2,858	504
0.40-0.59.....	13	229	845	207	552	753	2,377	4,008	105
0.60-0.79.....	10	108	468	96	241	418	865	1,238	44
0.80-0.99.....	11	251	920	209	409	772	1,476	2,200	167
1.00-1.19.....	13	308	1,098	263	567	933	1,610	2,112	121
1.20-1.49.....	19	393	1,614	318	704	1,210	3,098	4,377	359
1.50-1.79.....	23	572	2,427	496	1,083	1,916	5,190	7,287	1,235
1.80-1.99.....	12	236	870	211	511	750	1,404	2,296	99
2.00-2.39.....	30	890	3,551	790	1,724	3,247	6,118	8,198	863
2.40-2.79.....	45	1,352	5,202	1,181	2,564	4,347	9,722	13,420	1,526
2.80-2.99.....	26	577	2,154	438	1,163	1,819	3,890	5,972	706
3.00-3.59.....	87	2,307	9,459	2,081	4,591	8,032	18,740	25,772	3,492
3.60-3.99.....	54	1,806	7,705	1,512	3,470	5,977	15,725	22,300	2,203
4.00-4.99.....	168	4,795	21,342	4,308	9,301	18,237	48,018	62,357	7,116
5.00-5.99.....	115	2,932	13,526	2,472	5,292	10,871	32,811	44,879	5,282
6.00-6.99.....	91	2,698	13,238	2,311	4,999	10,719	35,372	45,245	4,969
7.00-7.99.....	60	1,732	9,144	1,481	3,129	7,326	23,779	31,214	3,080
8.00-8.99.....	46	1,264	6,556	1,119	2,419	5,660	21,562	27,237	4,082
9.00-9.99.....	20	488	2,985	380	866	2,168	9,023	13,526	1,067
10.00-11.99.....	35	960	5,337	793	1,601	4,046	19,898	24,975	1,242
12.00-14.99.....	25	913	5,046	759	1,307	3,776	13,131	16,683	1,070
15.00 and over.....	101	963	2,943	844	1,082	2,291	4,613	10,417	1,403
Undistributed <sup>2</sup> .....	439	5,353	25,862	3,846	8,936	15,085	53,694	80,466	13,599
Producing open quarries with crushing plants, total.....									
Less than 0.80.....	20	393	1,533	359	973	1,363	3,693	5,515	308
0.80-0.99.....	6	219	845	188	369	704	1,287	1,979	167
1.00-1.99.....	46	1,037	3,983	871	2,006	3,192	7,519	11,322	1,074
2.00-2.99.....	90	2,281	8,166	1,938	4,440	7,121	15,060	21,592	2,914
3.00-3.99.....	123	3,730	15,595	3,263	7,294	12,734	32,128	44,158	5,268
4.00-4.99.....	143	3,955	17,538	3,577	7,773	15,172	38,775	50,759	6,168
5.00-5.99.....	99	2,645	12,216	2,223	4,755	9,741	29,883	41,019	5,137
6.00-6.99.....	81	2,517	12,418	2,151	4,662	10,073	33,540	42,504	4,801
7.00-7.99.....	55	1,643	8,808	1,398	2,974	7,010	22,871	29,535	3,034
8.00-8.99.....	37	1,034	5,488	906	2,013	4,711	18,502	22,949	3,905
9.00-9.99.....	18	485	2,972	377	864	2,155	8,990	13,485	1,067
10.00-11.99.....	24	803	4,537	662	1,367	3,468	17,489	21,981	1,059
12.00 and over.....	103	1,644	7,107	1,382	2,221	5,249	15,152	23,746	2,367
Undistributed <sup>2</sup> .....	427	4,182	17,862	3,559	7,869	14,069	48,155	71,294	12,566

See footnotes at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 8.—General Statistics for Establishments in the United States Classified by Output per Man-hour, by Selected Types of Operation: 1958—Continued

Subindustry, type of operation, and tons per man-hour <sup>1</sup>	Estab- lishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi- tures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
CRUSHED AND BROKEN LIMESTONE--Continued									
Producing underground quarries, total.....	60	1,931	8,856	1,661	3,530	7,228	17,716	23,872	976
Less than 0.80.....	3	47	158	43	66	133	342	514	..
1.00-1.99.....	6	183	721	166	367	623	1,058	1,396	96
2.00-2.99.....	8	500	2,510	440	946	2,185	4,426	5,653	179
3.00-3.99.....	12	306	1,236	254	570	947	1,988	3,100	383
4.00-4.99.....	11	396	1,778	334	720	1,412	4,280	5,439	147
5.00-5.99.....	7	178	875	147	313	715	1,781	2,398	4
6.00-6.99.....	5	130	642	114	254	483	1,313	2,048	64
7.00 and over.....	4	130	701	109	188	520	1,961	2,468	101
Undistributed <sup>2</sup> .....	4	61	235	54	106	210	567	856	2
CRUSHED AND BROKEN GRANITE:									
All establishments, total.....	121	3,309	12,975	2,906	6,442	10,771	33,493	49,596	4,703
Less than 0.40.....	3	55	245	47	103	207	231	496	51
0.40-0.69.....	3								
1.00-1.99.....	6	126	363	117	205	335	482	692	727
2.00-2.99.....	7	253	1,167	212	538	909	2,468	3,067	256
3.00-3.99.....	14	486	1,808	435	1,073	1,586	3,620	5,735	368
4.00-4.99.....	27	1,344	4,889	1,225	2,618	4,198	11,301	16,851	1,302
5.00-5.99.....	8	221	817	201	486	713	2,558	3,622	340
6.00-6.99.....	8	203	726	184	399	672	2,355	4,280	546
7.00-7.99.....	6	101	435	95	193	418	1,738	2,479	27
8.00-8.99.....	5	102	472	87	186	342	1,063	2,114	340
9.00-9.99.....	4	77	331	58	143	239	1,580	2,159	135
10.00 and over.....	9	214	1,004	186	364	899	5,387	6,619	424
Undistributed <sup>2</sup> .....	21	127	718	59	134	253	710	1,482	181
CRUSHED AND BROKEN STONE, NEC									
All establishments, total.....	378	6,687	32,068	5,587	12,078	25,240	77,927	107,443	9,683
Less than 0.40.....	18	631	2,455	543	1,021	1,993	3,596	4,452	194
0.40-0.59.....	6	125	485	114	264	417	1,578	3,441	163
0.60-0.79.....	6	205	828	165	344	673	2,183	3,288	119
0.80-0.99.....	8	401	1,554	353	870	1,265	4,829	6,912	655
1.00-1.49.....	20	240	926	212	393	788	2,492	3,763	264
1.50-1.99.....	13	183	647	168	313	586	2,279	3,243	590
2.00-2.99.....	39	695	3,108	624	1,367	2,637	5,102	8,082	525
3.00-3.99.....	32	685	3,413	588	1,332	2,834	8,381	10,703	957
4.00-4.99.....	29	476	2,174	400	871	1,804	5,878	6,889	1,364
5.00-5.99.....	23	661	3,192	585	1,293	2,713	9,205	12,209	1,323
6.00-6.99.....	18	416	2,772	361	782	2,361	7,951	10,188	601
7.00-7.99.....	8	91	438	77	143	366	1,168	1,460	141
8.00-8.99.....	6	82	372	72	134	332	906	1,399	76
9.00-9.99.....	4	103	526	90	201	450	1,285	2,241	106
10.00-11.99.....	9	135	864	95	173	616	1,774	2,244	245
12.00 and over.....	20	433	2,581	378	637	2,180	9,631	11,543	661
Undistributed <sup>2</sup> .....	119	1,125	5,733	762	1,940	3,225	9,689	15,386	1,699
Producing open quarries with crushing plants, total.....	283	5,097	25,309	4,419	9,729	21,106	66,619	90,937	8,660
Less than 0.40.....	10	110	404	97	210	341	798	1,107	23
0.40-0.99.....	11	348	1,482	309	669	1,236	4,182	7,109	545
1.00-1.99.....	16	282	1,096	251	459	941	3,127	4,693	555
2.00-2.99.....	29	624	2,870	558	1,245	2,416	4,640	7,197	500
3.00-3.99.....	23	586	2,961	500	1,133	2,433	7,211	9,205	805
4.00-4.99.....	21	396	1,899	336	745	1,579	5,154	6,010	1,271
5.00-6.99.....	36	1,040	5,805	915	2,023	4,947	16,751	21,858	1,882
7.00-9.99.....	13	206	1,073	179	359	923	2,802	4,006	200
10.00 and over.....	17	492	3,059	410	687	2,513	10,127	12,117	892
Undistributed <sup>2</sup> .....	107	1,013	4,660	864	2,199	3,777	11,827	17,635	1,987

<sup>1</sup>Represents tons of primary products of the industry shipped per man-hour worked by production and development workers.

<sup>2</sup>Represents establishments with no production or development worker man-hours, with man-hours spent on exploration or development work amounting to 30 percent or more of total man-hours of production and development workers, with cost of contract work amounting to 30 percent or more of production and development worker wages, with number of working proprietors amounting to 30 percent or more of number of production and development workers or, except as specified, nonproducing establishments. Also, includes figures for the number and payroll of employees at separately reported central offices and related facilities.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Division: 1958

Subindustry, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab- lishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi- tures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
DIMENSION LIMESTONE SUBINDUSTRY									
United States, total.....	68	583	2,120	491	879	1,592	3,741	4,174	502
Less than 0.10.....	2	15	...	...	...	...	...	...	...
0.10-0.19.....	3	16	10	18	15	173	126	73	...
0.20-0.29.....	9	21	54	21	35	216	223	104	...
0.30-0.39.....	8	60	245	54	113	214	681	742	113
0.40-0.49.....	6	166	569	156	309	519	1,195	1,373	94
0.50-0.59.....	8	143	511	131	214	462	895	976	77
0.60-0.69.....	4	52	118	38	50	81	170	202	(D)
0.70-0.79.....	4	67	196	54	95	167	254	307	(D)
0.80-0.89.....	2								
1.00 and over.....	8								
Undistributed <sup>2</sup> .....	14	34	326	5	7	8	90	108	22
East North Central, total.....	29	377	1,593	330	621	1,204	2,754	3,053	283
Less than 0.10.....	1	7	21	7	11	21	162	132	54
0.10-0.19.....	1								
0.20-0.29.....	3								
0.30-0.39.....	4	50	220	45	99	192	613	669	107
0.40-0.49.....	4	118	432	109	220	388	890	1,045	24
0.50-0.59.....	5	130	498	120	207	450	871	946	77
0.70-0.79.....	1	45	147	44	77	145	168	216	9
0.80-0.89.....	2								
1.00 and over.....	1								
Undistributed <sup>2</sup> .....	7	27	275	5	7	8	50	45	12
DIMENSION GRANITE SUBINDUSTRY:									
United States, total.....	76	740	2,288	681	1,277	2,046	4,085	5,577	217
0.10-0.19.....	5	43	107	43	72	107	627	697	...
0.20-0.29.....	6	20	64	18	35	60	249	272	15
0.30-0.39.....	6	45	140	41	80	129	400	481	34
0.40-0.49.....	11	94	277	88	171	256	616	801	36
0.50-0.59.....	5	23	46	23	28	45	80	97	...
0.60-0.69.....	11	143	415	124	237	348	640	828	25
0.70-0.79.....	6	211	769	197	374	675	988	1,495	70
0.80-0.89.....	5	61	191	53	107	160	237	406	13
0.90-0.99.....	5	29	82	27	50	76	89	195	7
1.00 and over.....	9	66	183	63	114	178	116	242	2
Undistributed <sup>2</sup> .....	7	5	14	4	9	12	43	63	15
West North Central, total.....	15	94	267	85	170	246	778	1,064	16
0.10-0.19.....	3	48	133	47	86	130	611	664	8
0.30-0.39.....	2								
0.40-0.49.....	2								
0.60-0.69.....	1	15	39	13	24	35	54	143	...
0.70-0.79.....	2								
0.80-0.89.....	3								
0.90-0.99.....	2	31	95	25	60	81	113	257	8
South Atlantic, total.....	27	324	838	302	536	761	1,408	2,036	57
0.10-0.19.....	2	18	45	17	30	42	219	252	...
0.20-0.29.....	1								
0.30-0.39.....	3								
0.40-0.49.....	4	56	126	53	73	117	255	333	(D)
0.50-0.59.....	2								
0.60-0.69.....	4								
0.70-0.79.....	2	148	385	136	259	334	557	867	20
0.80-0.89.....	1	72	193	70	124	189	160	313	(D)
0.90-0.99.....	1								
1.00 and over.....	4								
Undistributed <sup>2</sup> .....	3	5	14	4	9	12	1	11	...
DIMENSION STONE, NEC, SUBINDUSTRY:									
United States, total.....	191	983	2,713	883	1,534	2,429	5,250	6,113	482
Less than 0.10.....	3	4	5	4	4	5	88	59	30
0.10-0.19.....	9	30	59	28	28	57	411	555	41
0.20-0.29.....	16	73	206	63	96	175	814	959	94
0.30-0.39.....	23	133	357	109	192	310	1,019	1,020	118
0.40-0.49.....	16	75	158	59	103	134	347	425	21
0.50-0.59.....	23	135	395	124	236	361	725	805	48
0.60-0.69.....	11	127	297	121	191	279	459	510	9
0.70-0.79.....	8	146	463	134	246	399	610	755	6
0.80-0.89.....	11	75	233	64	112	193	279	333	2
0.90-0.99.....	3	52	148	52	89	148	155	181	6
1.00 and over.....	20	89	271	83	165	252	151	241	12
Undistributed <sup>2</sup> .....	48	44	121	42	72	116	192	270	95

See footnotes at end of table.

## MINERAL INDUSTRIES—INDUSTRY STATISTICS

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Division: 1958—Continued

Subindustry, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab- lishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi- tures (\$1,000)	
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
DIMENSION STONE, NEC, SUBINDUSTRY—Con.										
Middle Atlantic, total.....	46	216	680	198	366	602	1,221	1,392	95	
Less than 0.10.....	2	}	14	20	12	8	18	137	100	44
0.10-0.19.....	1									
0.20-0.29.....	2									
0.30-0.39.....	5	39	106	35	57	94	298	320	12	
0.40-0.49.....	5	24	62	21	39	55	137	149	10	
0.50-0.59.....	6	12	33	12	21	33	61	73	6	
0.60-0.69.....	2	}	70	229	66	138	207	310	357	5
0.70-0.79.....	3									
0.80-0.89.....	4									
0.90-0.99.....	1	}	21	85	20	39	81	60	104	6
1.00 and over.....	4									
Undistributed <sup>2</sup> .....	11									
East North Central, total.....	25	134	429	123	219	383	904	1,108	54	
0.10-0.19.....	2	}	29	73	27	41	71	372	419	35
0.20-0.29.....	3									
0.30-0.39.....	2									
0.40-0.49.....	2	8	23	8	19	23	54	67	2	
0.50-0.59.....	5	}	21	92	21	46	92	171	193	3
0.60-0.69.....	3									
0.70-0.79.....	2									
0.80-0.89.....	3	}	48	181	40	73	138	213	305	2
0.90-0.99.....	2									
1.00 and over.....	4									
Undistributed <sup>2</sup> .....	4	5	12	4	7	11	18	31	12	
East South Central, total.....	28	275	(D)	255	(D)	(D)	(D)	(D)	(D)	
0.10-0.19.....	2	}	34	101	27	37	75	367	492	31
0.20-0.29.....	3									
0.30-0.39.....	3									
0.40-0.49.....	3	10	24	8	8	19	74	60	18	
0.50-0.59.....	3	20	31	15	20	23	68	79	9	
0.60-0.69.....	2	}	125	292	120	199	284	459	497	6
0.70-0.79.....	3									
0.80-0.89.....	1									
0.90-0.99.....	2	}	84	217	83	150	214	165	203	4
1.00 and over.....	4									
Undistributed <sup>2</sup> .....	5									
CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY:										
United States, total.....	1,458	31,408	143,358	26,372	57,112	111,255	334,368	459,037	54,334	
Less than 0.10.....	21	59	130	55	118	122	2,011	1,627	442	
0.10-0.19.....	90	1,410	5,961	1,255	2,703	5,128	35,423	42,012	4,587	
0.20-0.29.....	224	3,768	16,264	3,277	7,098	13,791	65,269	80,280	11,547	
0.30-0.39.....	269	5,913	26,565	5,159	11,099	21,589	75,984	100,602	11,234	
0.40-0.49.....	238	6,935	31,061	6,018	13,040	25,638	70,573	95,580	8,405	
0.50-0.59.....	189	4,900	22,471	4,108	8,907	17,739	40,867	57,623	6,776	
0.60-0.69.....	105	2,695	13,004	2,262	4,929	10,103	20,389	33,829	3,411	
0.70-0.79.....	76	2,143	10,096	1,821	3,932	7,980	13,597	23,868	2,584	
0.80-0.89.....	43	914	4,234	763	1,656	3,152	4,908	8,702	2,905	
0.90-0.99.....	12	262	1,034	228	500	839	1,112	2,237	421	
1.00 and over.....	108	1,496	5,672	1,305	2,872	4,752	3,787	10,711	1,378	
Undistributed <sup>2</sup> .....	83	913	6,866	121	258	422	448	1,966	644	
New England, total.....	12	224	883	192	458	724	1,392	2,061	248	
0.40-0.49.....	2	}	96	372	76	181	275	777	1,020	164
0.50-0.59.....	3									
0.60-0.69.....	1									
0.70-0.79.....	3	89	378	80	191	328	531	893	69	
1.00 and over.....	3	39	133	36	86	121	84	148	15	
Middle Atlantic, total.....	178	5,564	28,216	4,441	9,464	20,848	62,020	86,572	10,105	
Less than 0.10.....	3	19	28	18	38	24	456	422	134	
0.10-0.19.....	9	166	819	145	308	712	4,928	5,460	194	
0.20-0.29.....	18	537	2,722	457	974	2,306	10,436	12,945	2,199	
0.30-0.39.....	38	1,048	5,242	857	1,828	4,188	14,950	19,442	2,793	
0.40-0.49.....	26	1,155	5,330	1,029	2,194	4,685	12,322	16,490	1,363	
0.50-0.59.....	24	715	3,802	589	1,255	2,723	7,018	9,112	1,292	
0.60-0.69.....	21	833	4,662	647	1,379	3,232	7,567	13,795	1,406	
0.70-0.79.....	13	443	2,157	383	816	1,670	2,949	5,220	299	
0.80-0.89.....	8	}	184	928	142	302	622	1,057	1,863	291
0.90-0.99.....	1									
1.00 and over.....	13									
Undistributed <sup>2</sup> .....	4	207	911	140	298	576	455	1,210	112	
		257	1,615	34	72	110	( <sup>3</sup> )	613	22	

See footnotes at end of table.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Division: 1958—Continued

Subindustry, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab-lishments, number	All employees		Production and development workers			Value added in mining	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
CRUSHED AND BROKEN LIMESTONE SUB-INDUSTRY--Continued									
East North Central, total.....	429	9,111	46,699	7,586	16,418	35,863	106,410	140,710	13,992
Less than 0.10.....	6	10	21	8	17	19	413	180	74
0.10-0.19.....	21	375	1,880	356	770	1,698	10,773	12,622	737
0.20-0.29.....	68	964	4,699	872	1,887	4,158	19,385	21,810	3,876
0.30-0.39.....	77	1,290	6,496	1,116	2,415	5,185	18,794	25,393	2,477
0.40-0.49.....	66	2,175	11,479	1,851	4,007	9,211	26,649	34,389	2,306
0.50-0.59.....	61	2,082	10,293	1,735	3,755	8,240	18,506	24,975	2,070
0.60-0.69.....	28	682	3,250	606	1,311	2,751	4,973	7,551	829
0.70-0.79.....	19	738	3,549	619	1,340	2,808	4,699	9,039	1,076
0.80-0.89.....	13	246	1,141	200	433	891	1,312	2,784	186
0.90-0.99.....	2								
1.00 and over.....	17	204	822	182	394	718	473	1,365	220
Undistributed <sup>2</sup> .....	51	345	3,069	41	89	184	433	602	141
West North Central, total.....	345	5,154	23,144	4,324	9,560	18,146	54,603	75,703	10,835
Less than 0.10.....	5	9	19	8	17	18	296	217	119
0.10-0.19.....	28	274	1,114	250	553	1,020	6,756	7,303	1,308
0.20-0.29.....	56	704	2,837	607	1,342	2,441	11,399	14,329	2,238
0.30-0.39.....	57	998	4,338	884	1,955	3,582	12,237	16,004	1,759
0.40-0.49.....	66	1,086	4,594	907	2,006	3,696	10,271	15,207	1,981
0.50-0.59.....	43	728	3,249	605	1,338	2,622	5,886	9,134	1,672
0.60-0.69.....	24	400	1,880	322	712	1,391	2,897	4,554	519
0.70-0.79.....	20	414	2,045	356	787	1,556	2,730	4,284	505
0.80-0.89.....	3	144	844	124	274	629	974	1,664	266
0.90-0.99.....	2								
1.00 and over.....	27	397	2,224	261	576	1,191	1,157	3,007	468
Undistributed <sup>2</sup> .....	14								
South Atlantic, total.....	171	4,662	18,362	4,003	8,296	14,439	48,604	66,987	7,698
Less than 0.10.....	2	244	1,005	181	374	694	6,217	8,319	1,306
0.10-0.19.....	12	594	2,431	525	1,088	1,965	9,906	12,839	1,145
0.20-0.29.....	27	1,388	5,796	1,216	2,522	4,693	16,347	21,849	2,009
0.30-0.39.....	42	1,308	5,113	1,155	2,393	4,157	11,211	15,389	1,569
0.40-0.49.....	29	363	1,285	310	642	965	2,343	3,521	508
0.50-0.59.....	15	204	778	180	373	671	1,199	1,897	309
0.60-0.69.....	12	110	355	84	174	290	462	1,023	141
0.70-0.79.....	5	73	254	69	143	237	290	585	130
0.80-0.89.....	4	61	164	54	112	136	174	271	192
0.90-0.99.....	3	227	706	208	431	561	497	1,136	136
1.00 and over.....	16	90	475	21	44	70	( <sup>3</sup> )	158	253
Undistributed <sup>2</sup> .....	4								
East South Central, total.....	190	3,858	13,549	3,397	7,346	11,211	36,584	51,718	6,280
Less than 0.10.....	1	347	1,134	321	694	996	6,756	8,286	1,078
0.10-0.19.....	17								
0.20-0.29.....	38	661	2,255	566	1,224	1,820	9,304	12,356	1,607
0.30-0.39.....	37	809	2,912	740	1,600	2,440	8,359	11,314	1,199
0.40-0.49.....	37	641	2,332	567	1,226	2,044	5,166	7,503	625
0.50-0.59.....	26	622	2,093	531	1,150	1,643	3,859	5,946	1,031
0.60-0.69.....	29	242	885	214	463	755	1,356	2,154	118
0.70-0.79.....	9	139	558	114	246	400	748	1,246	244
0.80-0.89.....	8	129	488	106	229	348	580	1,020	162
0.90-0.99.....	7								
1.00 and over.....	1	268	892	238	514	765	456	1,893	216
Undistributed <sup>2</sup> .....	15								
West South Central, total.....	57	1,901	7,809	1,637	4,022	6,419	15,695	23,504	2,485
Less than 0.10.....	2	471	1,952	410	1,007	1,716	6,770	8,497	1,175
0.10-0.19.....	1								
0.20-0.29.....	7	438	1,672	397	975	1,415	3,709	5,178	311
0.30-0.39.....	7								
0.40-0.49.....	14	202	953	176	432	891	1,836	3,002	142
0.50-0.59.....	5	256	1,182	225	553	1,018	1,822	3,061	203
0.60-0.69.....	4	534	2,050	429	1,055	1,379	1,558	3,766	654
0.70-0.79.....	3								
0.80-0.89.....	1	2							
0.90-0.99.....	2								
1.00 and over.....	9	2							
Undistributed <sup>2</sup> .....	2								

See footnotes at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Division: 1958—Continued

Subindustry, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab- lishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi- tures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
CRUSHED AND BROKEN LIMESTONE SUB- INDUSTRY--Continued									
Mountain, total.....	35	483	2,487	402	762	1,819	4,612	6,152	2,113
Less than 0.10.....	1	48	177	42	79	155	777	1,008	49
0.10-0.19.....	1								
0.20-0.29.....	6								
0.30-0.39.....	5	96	572	79	150	377	1,697	1,895	150
0.40-0.49.....	5								
0.50-0.59.....	3								
0.60-0.69.....	2	180	875	162	306	786	1,202	1,686	94
0.70-0.79.....	4								
0.80-0.89.....	3								
0.90-0.99.....	1	61	316	54	102	244	373	743	1,723
1.00 and over.....	3								
Undistributed <sup>2</sup> .....	1								
Pacific, total.....	41	451	2,209	390	786	1,786	4,448	5,630	578
Less than 0.10.....	1	98	471	88	176	423	1,731	2,031	184
0.10-0.19.....	1								
0.20-0.29.....	4								
0.30-0.39.....	6	46	213	41	83	167	485	517	41
0.40-0.49.....	4								
0.50-0.59.....	6								
0.60-0.69.....	4	116	501	107	216	442	897	1,108	34
0.70-0.79.....	4								
0.80-0.89.....	2								
0.90-0.99.....	3	92	503	70	141	335	635	887	240
1.00 and over.....	5								
Undistributed <sup>2</sup> .....	5								
CRUSHED AND BROKEN GRANITE SUBINDUSTRY:									
United States, total.....	121	3,309	12,975	2,906	6,442	10,771	33,493	49,596	4,703
Less than 0.10.....	3	28	94	24	43	78	1,390	1,965	51
0.10-0.19.....	6	119	379	109	260	353	2,598	3,511	229
0.20-0.29.....	28	658	2,685	565	1,271	2,268	10,849	14,136	1,482
0.30-0.39.....	20	752	2,707	673	1,473	2,347	7,931	11,085	704
0.40-0.49.....	13	475	1,691	444	990	1,559	3,765	6,279	383
0.50-0.59.....	9	296	1,252	281	747	1,146	2,233	3,743	300
0.60-0.69.....	10	350	1,245	297	553	959	1,914	3,071	240
0.70-0.79.....	11	314	1,239	278	608	971	1,677	3,070	823
0.80-0.89.....	5	35	133	34	57	131	158	273	5
0.90-0.99.....	3	59	248	50	102	201	261	854	175
1.00 and over.....	7	163	838	141	314	719	730	1,563	262
Undistributed <sup>2</sup> .....	6	60	464	10	24	39	( <sup>3</sup> )	46	49
South Atlantic, total.....	68	2,430	8,529	2,144	4,770	6,978	23,288	35,253	3,848
Less than 0.10.....	1	142	456	128	296	414	3,427	4,568	254
0.10-0.19.....	5								
0.20-0.29.....	16								
0.30-0.39.....	14	482	1,687	400	965	1,310	6,904	9,551	1,237
0.40-0.49.....	9	629	2,097	579	1,256	1,816	6,236	8,808	655
0.50-0.59.....	7	420	1,474	396	893	1,361	3,259	5,529	233
0.60-0.69.....	5	90	321	85	205	284	578	942	242
0.70-0.79.....	5	256	954	222	447	733	1,451	2,386	141
0.80-0.89.....	6	248	845	224	485	713	1,138	2,056	644
0.90-0.99.....	1	163	695	110	223	347	295	1,413	442
1.00 and over.....	3								
Undistributed <sup>2</sup> .....	1								
Pacific, total.....	22	314	1,980	272	555	1,697	5,136	6,489	407
0.20-0.29.....	8	188	1,108	178	336	1,068	4,225	5,157	233
0.30-0.39.....	2								
0.40-0.49.....	2								
0.50-0.59.....	1	25	111	23	46	99	257	392	142
0.60-0.69.....	1								
0.70-0.79.....	1								
0.80-0.89.....	1	23	116	15	28	86	162	312	9
0.90-0.99.....	1								
1.00 and over.....	3								
Undistributed <sup>2</sup> .....	2	78	645	56	145	444	492	628	23

See footnotes at end of table.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Division: 1958—Continued

Subindustry, division, and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
CRUSHED AND BROKEN STONE, NEC, SUBINDUSTRY:									
United States, total.....	378	6,687	32,068	5,587	12,078	25,240	77,927	107,443	9,683
Less than 0.10.....	11	28	112	20	34	66	2,382	2,758	529
0.10-0.19.....	23	212	985	190	383	862	6,067	6,463	1,693
0.20-0.29.....	56	1,049	4,943	939	2,113	4,252	19,226	25,673	2,458
0.30-0.39.....	77	1,827	8,534	1,567	3,118	7,084	24,371	32,745	2,302
0.40-0.49.....	40	833	4,523	734	2,117	3,833	9,972	14,031	815
0.50-0.59.....	55	703	3,201	618	1,291	2,702	5,897	8,851	553
0.60-0.69.....	24	359	1,659	299	587	1,313	2,518	4,254	372
0.70-0.79.....	17	805	3,438	688	1,331	2,795	4,538	6,423	379
0.80-0.89.....	11	185	1,026	155	344	779	1,243	2,042	247
0.90-0.99.....	12	178	750	161	328	603	798	1,439	88
1.00 and over.....	30	251	1,100	196	386	881	865	2,524	169
Undistributed <sup>2</sup> .....	22	257	1,797	20	46	70	50	240	78
Northeast, total.....	106	2,700	14,529	2,160	4,602	10,683	34,517	47,305	3,530
Less than 0.10.....	2	58	353	50	109	303	3,219	2,645	930
0.10-0.19.....	4								
0.20-0.29.....	14	397	2,299	364	866	1,974	8,828	12,095	727
0.30-0.39.....	23	808	4,150	678	1,191	3,345	12,076	16,287	743
0.40-0.49.....	13	312	1,662	287	671	1,475	3,678	5,403	403
0.50-0.59.....	18	323	1,496	284	623	1,205	2,731	3,992	196
0.60-0.69.....	7	167	954	132	301	688	1,442	2,301	211
0.70-0.79.....	5	202	941	167	367	739	1,256	1,991	150
0.80-0.89.....	3	48	282	40	114	189	330	507	42
0.90-0.99.....	6	103	560	92	224	441	594	1,042	84
1.00 and over.....	6	95	427	65	134	320	334	1,007	26
Undistributed <sup>2</sup> .....	5	187	1,405	1	2	4	29	35	18
East North Central, total.....	36	865	3,579	749	1,444	2,929	7,357	10,076	941
Less than 0.10.....	1	21	94	19	34	82	865	1,219	381
0.10-0.19.....	3								
0.20-0.29.....	8	105	422	88	171	329	1,561	2,109	275
0.30-0.39.....	5	48	191	45	78	178	592	717	45
0.40-0.49.....	6	93	470	75	187	354	1,103	1,470	43
0.50-0.59.....	5								
0.60-0.69.....	1								
0.70-0.79.....	1								
0.80-0.89.....	2	598	2,402	522	974	1,986	3,236	4,561	197
0.90-0.99.....	1								
1.00 and over.....	1								
Undistributed <sup>2</sup> .....	2								
West North Central, total.....	24	249	900	210	399	743	2,443	3,610	349
Less than 0.10.....	1	78	275	68	122	254	1,540	1,809	149
0.10-0.19.....	4								
0.20-0.29.....	5								
0.30-0.39.....	4	45	169	36	81	139	453	661	14
0.40-0.49.....	1								
0.50-0.59.....	2	73	295	65	143	263	413	1,017	80
0.60-0.69.....	1								
0.70-0.79.....	1								
0.80-0.89.....	2	32	71	32	42	70	43	112	63
0.90-0.99.....	1								
1.00 and over.....	2								
Undistributed <sup>2</sup> .....	3	21	90	9	11	17	( <sup>3</sup> )	11	43
South Atlantic, total.....	42	41,088	44,187	948	2,115	3,357	12,699	18,420	2,349
Less than 0.10.....	2	76	293	63	124	214	1,921	2,632	581
0.10-0.19.....	4								
0.20-0.29.....	10	338	1,387	307	726	1,227	5,523	7,536	1,155
0.30-0.39.....	13	427	1,507	382	856	1,282	4,166	5,978	453
0.40-0.49.....	3	75	218	69	138	191	462	630	143
0.50-0.59.....	2								
0.60-0.69.....	1	56	176	51	89	145	261	555	5
0.70-0.79.....	2								
0.80-0.89.....	2								
0.90-0.99.....	2	89	394	76	182	298	366	1,089	12
1.00 and over.....	3								
South Central, total.....	40	445	1,415	380	781	1,254	3,713	5,171	704
Less than 0.10.....	1	68	217	61	114	188	1,044	1,177	102
0.10-0.19.....	2								
0.20-0.29.....	7								
0.30-0.39.....	10	181	667	164	387	594	1,805	2,737	499
0.40-0.49.....	2								
0.50-0.59.....	6	101	238	83	159	229	458	708	73
0.60-0.69.....	3								
0.70-0.79.....	1	64	214	54	92	184	325	382	18
0.80-0.89.....	1								
0.90-0.99.....	1								
1.00 and over.....	4	31	79	18	29	59	80	167	12
Undistributed <sup>2</sup> .....	3								

See footnotes at end of table.

## MINERAL INDUSTRIES—INDUSTRY STATISTICS

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Division: 1958—Continued

Subindustry, division, and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
CRUSHED AND BROKEN STONE, NEC, SUB-INDUSTRY--Continued									
Mountain, total.....	28	353	2,144	304	627	1,837	5,537	7,213	594
0.20-0.29.....	5	38	160	30	63	136	675	851	60
0.30-0.39.....	4	190	1,423	165	394	1,222	4,042	4,954	421
0.40-0.49.....	3	29	95	24	28	78	207	267	...
0.50-0.59.....	5	37	152	32	55	133	246	415	33
0.60-0.69.....	2								
0.70-0.79.....	1	46	262	42	73	231	318	653	64
0.80-0.89.....	2								
0.90-0.99.....	1	13	52	11	14	37	49	73	16
1.00 and over.....	3								
Undistributed <sup>2</sup> .....	2								
Pacific, total.....	102	987	5,314	836	2,110	4,437	11,661	15,648	1,216
Less than 0.10.....	4	4	9	4	4	9	125	119	48
0.10-0.19.....	6	25	108	23	43	98	682	738	129
0.20-0.29.....	7	81	423	72	154	366	1,692	1,964	143
0.30-0.39.....	18	154	549	119	199	436	1,510	1,880	200
0.40-0.49.....	12	297	1,956	257	1,025	1,623	4,248	5,792	153
0.50-0.59.....	19	174	1,003	152	303	847	1,881	2,695	216
0.60-0.69.....	8	60	269	57	106	258	423	778	94
0.70-0.79.....	6	67	335	57	110	300	443	600	(D)
0.80-0.89.....	4	60	375	44	84	258	461	676	141
1.00 and over.....	11	51	235	48	70	225	185	387	51
Undistributed <sup>2</sup> .....	7	14	52	3	12	17	11	19	(D)

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Note that in computing these ratios contract employment serving the establishment is excluded. The cost of contract work expressed as a percent of payroll for 1958 was: for the Dimension Stone Industry, 5 percent, and for the Crushed and Broken Stone Industry, 9 percent.

<sup>2</sup>Represents establishments with zero or negative value added; establishments with no employees; and for number of employees and payroll, figures for separately reported central offices and related facilities.

<sup>3</sup>Not shown since cost of supplies, fuels, purchased electricity, contract work, and purchased machinery exceeds value of shipments and receipts plus capital expenditures.

<sup>4</sup>Includes figures for separately reported central offices and related facilities.



Table 10.—Value Added in Mining per Employee by size of  
Establishment for the United States: 1958

Subindustry and value added per employee class <sup>1</sup>	Number of--		Number of establishments with average employment of--						
	Estab- lishments	Employees	0-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
DIMENSION LIMESTONE SUBINDUSTRY, TOTAL...	68	583	60	7	...	1	...	...	...
Less than \$3,000.....	15	92	13	2	...	...	...	...	...
\$3,000-\$3,999.....	3	16	3	...	...	...	...	...	...
\$4,000-\$4,999.....	10	72	10	...	...	...	...	...	...
\$5,000-\$5,999.....	3	17	3	...	...	...	...	...	...
\$6,000-\$6,999.....	4	88	2	2	...	...	...	...	...
\$7,000-\$7,999.....	2	183	...	1	...	1	...	...	...
\$8,000-\$8,999.....	2		1	1	...	...	...	...	...
\$9,000-\$9,999.....	3	9	3	...	...	...	...	...	...
\$10,000-\$12,499.....	3	49	2	1	...	...	...	...	...
\$12,500-\$14,999.....	3	19	3	...	...	...	...	...	...
\$15,000-\$17,499.....	2		2	...	...	...	...	...	...
\$17,500-\$19,999.....	4	9	4	...	...	...	...	...	...
\$20,000 and over.....	2		2	...	...	...	...	...	...
Undistributed <sup>2</sup> .....	12	29	12	...	...	...	...	...	...
DIMENSION GRANITE SUBINDUSTRY, TOTAL.....	76	740	67	6	2	1	...	...	...
Less than \$3,000.....	13	90	12	1	...	...	...	...	...
\$3,000-\$3,999.....	17	238	15	...	2	...	...	...	...
\$4,000-\$4,999.....	7	52	5	2	...	...	...	...	...
\$5,000-\$5,999.....	5	191	3	1	...	1	...	...	...
\$6,000-\$6,999.....	1		...	1	...	...	...	...	...
\$7,000-\$7,999.....	6	34	6	...	...	...	...	...	...
\$8,000-\$8,999.....	9	59	9	...	...	...	...	...	...
\$9,000-\$9,999.....	4	18	4	...	...	...	...	...	...
\$10,000-\$12,499.....	3	17	3	...	...	...	...	...	...
\$12,500-\$14,999.....	2	36	2	...	...	...	...	...	...
\$17,500-\$19,999.....	1		...	1	...	...	...	...	...
\$20,000 and over.....	1	1	1	...	...	...	...	...	...
Undistributed <sup>2</sup> .....	7	5	7	...	...	...	...	...	...
DIMENSION STONE, NEC, SUBINDUSTRY, TOTAL..	191	983	182	9	...	...	...	...	...
Less than \$3,000.....	43	243	42	1	...	...	...	...	...
\$3,000-\$3,999.....	18	166	16	2	...	...	...	...	...
\$4,000-\$4,999.....	22	224	18	4	...	...	...	...	...
\$5,000-\$5,999.....	13	96	12	1	...	...	...	...	...
\$6,000-\$6,999.....	10	39	10	...	...	...	...	...	...
\$7,000-\$7,999.....	6	16	6	...	...	...	...	...	...
\$8,000-\$8,999.....	8	40	8	...	...	...	...	...	...
\$9,000-\$9,999.....	4	10	4	...	...	...	...	...	...
\$10,000-\$12,499.....	13	57	13	...	...	...	...	...	...
\$12,500-\$14,999.....	3	30	2	1	...	...	...	...	...
\$15,000-\$17,499.....	2	5	2	...	...	...	...	...	...
\$17,500-\$19,999.....	2		2	...	...	...	...	...	...
\$20,000 and over.....	5	22	5	...	...	...	...	...	...
Undistributed <sup>2</sup> .....	42	35	42	...	...	...	...	...	...
CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY, TOTAL.....	1,458	31,408	974	373	80	26	4	1	...
Less than \$3,000.....	105	1,254	86	16	3	...	...	...	...
\$3,000-\$3,999.....	62	830	49	12	1	...	...	...	...
\$4,000-\$4,999.....	90	1,505	63	24	2	1	...	...	...
\$5,000-\$5,999.....	115	1,864	87	23	5	...	...	...	...
\$6,000-\$6,999.....	108	2,204	67	34	6	1	...	...	...
\$7,000-\$7,999.....	121	3,169	78	30	8	1	...	...	...
\$8,000-\$8,999.....	111	2,772	57	44	7	3	...	...	...
\$9,000-\$9,999.....	107	2,477	71	28	6	1	1	...	...
\$10,000-\$12,499.....	189	5,620	103	62	16	6	2	...	...
\$12,500-\$14,999.....	121	3,557	76	30	8	6	...	1	...
\$15,000-\$17,499.....	85	1,561	60	20	4	1	...	...	...
\$17,500-\$19,999.....	49	1,113	28	16	4	1	...	...	...
\$20,000 and over.....	119	2,584	75	32	10	2	...	...	...
Undistributed <sup>2</sup> .....	76	898	74	...	...	...	...	...	...
CRUSHED AND BROKEN GRANITE SUBINDUSTRY, TOTAL.....	121	3,309	60	43	15	3	...	...	...
Less than \$3,000.....	4	72	3	1	...	...	...	...	...
\$3,000-\$3,999.....	12	237	7	4	1	...	...	...	...
\$4,000-\$4,999.....	8	194	4	3	1	...	...	...	...
\$5,000-\$5,999.....	8	308	3	2	3	...	...	...	...
\$6,000-\$6,999.....	10	350	3	5	2	...	...	...	...
\$7,000-\$7,999.....	8	457	3	1	3	1	...	...	...
\$8,000-\$8,999.....	8	171	6	1	1	...	...	...	...
\$9,000-\$9,999.....	4	78	1	3	...	...	...	...	...
\$10,000-\$12,499.....	17	543	8	5	3	1	...	...	...
\$12,500-\$14,999.....	8	275	3	4	...	1	...	...	...
\$15,000-\$17,499.....	12	228	6	6	...	...	...	...	...
\$17,500-\$19,999.....	6	84	3	3	...	...	...	...	...
\$20,000 and over.....	10	252	4	5	1	...	...	...	...
Undistributed <sup>2</sup> .....	6	60	6	...	...	...	...	...	...

See footnotes at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 10.--Value Added in Mining per Employee by size of  
Establishment for the United States: 1958--Continued

Subindustry and value added per employee class <sup>1</sup>	Number of--		Number of establishments with average employment of--						
	Estab- lishments	Employees	0-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
CRUSHED AND BROKEN STONE NEC, SUB- INDUSTRY, TOTAL.....	378	6,687	279	74	17	7	1	...	...
Less than \$3,000.....	27	171	25	2	...	...	...	...	...
\$3,000-\$3,999.....	22	153	19	3	...	...	...	...	...
\$4,000-\$4,999.....	24	332	19	3	2	...	...	...	...
\$5,000-\$5,999.....	22	730	16	5	...	...	1	...	...
\$6,000-\$6,999.....	25	409	17	6	2	...	...	...	...
\$7,000-\$7,999.....	21	237	17	4	...	...	...	...	...
\$8,000-\$8,999.....	30	545	17	11	2	...	...	...	...
\$9,000-\$9,999.....	37	585	28	6	3	...	...	...	...
\$10,000-\$12,499.....	37	774	26	7	3	1	...	...	...
\$12,500-\$14,999.....	34	882	18	11	3	2	...	...	...
\$15,000-\$17,499.....	19	449	14	2	2	1	...	...	...
\$17,500-\$19,999.....	15	390	10	4	...	1	...	...	...
\$20,000 and over.....	44	775	32	10	...	2	...	...	...
Undistributed <sup>2</sup> .....	21	255	21	2	...	...	...	...	...

<sup>1</sup>See table 9, footnote 1. <sup>2</sup>Represents establishments with no employees or with negative value added in mining and, for number of employees, figures for separately reported central offices and related facilities.



Table 11.—Hourly Earnings of Production and Development Workers for Establishments  
with 10 or more Employees, by Division: 1958

Subindustry by hourly earnings classes	Number of--		Number of establishments with 10 or more employees in--								
	Estab- lishments	Employees <sup>1</sup>	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun- tain	Pacific
DIMENSION LIMESTONE SUBINDUSTRY, TOTAL....	15	436	...	1	9	2	1	...	2	...	...
Less than \$1.00.....	1	101	{	...	...	1	...	...	...	...	...
\$1.00-\$1.49.....	3	225	{	...	1	...	...	...	2	...	...
\$1.50-\$1.99.....	6	110	{	...	4	1	...	...	...	...	...
\$2.00-\$2.49.....	3	...	{	...	2	...	...	...	...	...	...
\$2.50-\$2.99.....	2	...	{	...	2	...	...	...	...	...	...
DIMENSION GRANITE SUBINDUSTRY, TOTAL.....	20	523	2	...	3	3	9	1	1	...	1
\$1.00-\$1.49.....	8	223	{	...	...	2	4	1	1	...	...
\$1.50-\$1.99.....	10	300	{	1	...	3	1	5	...	...	...
\$2.00-\$2.49.....	2	...	{	1	...	...	...	...	...	...	1
DIMENSION STONE, NEC, SUBINDUSTRY, TOTAL....	36	635	3	8	5	1	4	9	3	2	1
\$1.00-\$1.49.....	18	290	{	1	3	2	2	5	3	2	...
\$1.50-\$1.99.....	12	224	{	2	3	1	1	3	...	...	1
\$2.00-\$2.49.....	5	121	{	...	1	2	...	1	...	...	...
\$2.50-\$2.99.....	1	...	{	...	1	...	...	...	...	...	...
CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY, TOTAL.....	906	28,481	8	134	229	179	124	158	44	12	18
Less than \$1.00.....	3	44	{	...	...	...	...	3	...	...	...
\$1.00-\$1.49.....	271	8,455	{	26	48	47	53	74	17	1	2
\$1.50-\$1.99.....	374	11,310	{	65	105	68	43	60	19	5	5
\$2.00-\$2.49.....	174	5,760	{	31	55	42	19	15	7	3	1
\$2.50-\$2.99.....	54	1,933	{	6	16	14	8	3	1	2	4
\$3.00-\$3.49.....	21	655	{	4	4	6	1	3	...	1	2
\$3.50-\$3.99.....	7	...	{	2	1	1	...	...	...	...	3
\$4.00-\$4.49.....	1	324	{	...	...	1	...	...	...	...	...
\$4.50 and over.....	1	...	{	...	...	...	...	...	...	...	1
CRUSHED AND BROKEN GRANITE SUBINDUSTRY, TOTAL.....	81	3,088	4	1	1	2	63	...	1	2	7
\$1.00-\$1.49.....	40	1,662	{	...	...	...	40	...	...	...	...
\$1.50-\$1.99.....	24	852	{	...	...	1	21	...	1	1	...
\$2.00-\$2.49.....	8	257	{	3	1	1	...	...	...	1	1
\$2.50-\$2.99.....	4	109	{	1	...	...	2	...	...	...	1
\$3.00-\$3.49.....	2	208	{	...	...	...	...	...	...	...	2
\$3.50-\$3.99.....	3	...	{	...	...	...	...	...	...	...	3
CRUSHED AND BROKEN STONE, NEC, SUBINDUSTRY, TOTAL.....	182	5,798	23	46	17	9	27	6	8	9	37
Less than \$1.00.....	2	948	{	...	...	...	...	1	...	...	1
\$1.00-\$1.49.....	22	...	{	1	2	1	12	2	3	...	1
\$1.50-\$1.99.....	60	1,447	{	7	18	5	10	3	3	1	7
\$2.00-\$2.49.....	49	1,750	{	10	17	7	5	...	1	2	6
\$2.50-\$2.99.....	16	519	{	2	4	1	...	...	1	2	6
\$3.00-\$3.49.....	26	922	{	4	4	2	...	...	...	4	12
\$3.50-\$3.99.....	4	75	{	...	...	1	...	...	...	...	3
\$4.00-\$4.49.....	2	137	{	...	1	...	...	...	...	...	1
\$4.50 and over.....	1	...	{	...	1	...	...	...	...	...	...

<sup>1</sup>Excludes figures for separately reported central offices and related facilities.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 12.-Distribution of Operating Companies by Employment Size and by Number of Establishments for the United States: 1958

Subindustry by establishment count	Number of--			Number of establishments with average employment of--								
	Operat- ing compa- nies	Estab- lish- ments	Em- ployees	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
DIMENSION LIMESTONE SUBINDUSTRY, TOTAL.....	65	68	583	46	7	7	7	...	1	...	...	...
Multiunit companies, total.....	4	7	285	1	...	2	3	...	1	...	...	...
1 establishment <sup>1</sup> .....	2	2	1	1	...	...	...	...	1	...	...	...
2 establishments.....	1	2	285	...	...	...	2	...	...	...	...	...
3 or 4 establishments.....	1	3	...	...	...	2	1	...	...	...	...	...
Single unit companies.....	61	61	298	45	7	5	4	...	...	...	...	...
DIMENSION GRANITE SUBINDUSTRY, TOTAL.....	63	76	740	29	27	11	6	2	1	...	...	...
Multiunit companies, total.....	14	27	500	3	12	3	6	2	1	...	...	...
1 establishment <sup>1</sup> .....	10	10	296	...	3	1	4	1	1	...	...	...
2 establishments.....	1	2	...	1	1	...	...	...	...	...	...	...
3 or 4 establishments.....	2	7	204	...	3	1	2	1	...	...	...	...
7 to 9 establishments.....	1	8	...	2	5	1	...	...	...	...	...	...
Single unit companies.....	49	49	240	26	15	8	...	...	...	...	...	...
DIMENSION STONE, NEC, SUBINDUSTRY, TOTAL.....	178	191	983	135	20	27	9	...	...	...	...	...
Multiunit companies, total.....	19	32	289	15	6	7	4	...	...	...	...	...
1 establishment <sup>1</sup> .....	15	15	129	6	5	3	1	...	...	...	...	...
2 establishments.....	2	4	...	2	...	2	...	...	...	...	...	...
3 or 4 establishments.....	1	3	160	...	...	1	3	...	...	...	...	...
7 to 9 establishments.....	1	9	...	7	1	1	...	...	...	...	...	...
Single unit companies.....	159	159	694	120	14	20	5	...	...	...	...	...
CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY, TOTAL.....	1,176	1,458	31,408	334	218	422	373	80	26	4	1	...
Multiunit companies, total.....	253	535	18,431	70	56	146	173	62	23	4	1	...
1 establishment <sup>1</sup> .....	136	136	6,029	8	10	39	44	26	7	2	...	...
2 establishments.....	66	132	4,034	16	17	39	40	14	6	...	...	...
3 or 4 establishments.....	29	95	2,611	13	11	28	34	7	1	1	...	...
5 or 6 establishments.....	14	74	2,614	11	10	15	25	8	4	1	...	...
7 to 9 establishments.....	4	33	2,082	2	...	6	16	4	4	...	1	...
10 to 14 establishments.....	2	22	...	10	2	8	2	...	...	...	...	...
15 to 19 establishments.....	1	16	1,061	10	4	1	1	...	...	...	...	...
20 or more establishments.....	1	27	...	...	2	10	11	3	1	...	...	...
Single unit companies.....	923	923	12,977	264	162	276	200	18	3	...	...	...
CRUSHED AND BROKEN GRANITE SUBINDUSTRY, TOTAL.....	87	121	3,309	26	14	20	43	15	3	...	...	...
Multiunit companies.....	25	59	2,111	5	3	10	29	10	2	...	...	...
1 establishment <sup>1</sup> .....	13	13	414	2	2	2	4	2	1	...	...	...
2 establishments.....	5	10	265	3	...	1	4	2	...	...	...	...
3 or 4 establishments.....	4	14	716	...	...	2	6	5	1	...	...	...
5 or 6 establishments.....	1	5	...	...	...	...	4	1	...	...	...	...
7 to 9 establishments.....	2	17	716	...	1	5	11	...	...	...	...	...
Single unit companies.....	62	62	1,198	21	11	10	14	5	1	...	...	...
CRUSHED AND BROKEN STONE, NEC, SUBINDUSTRY, TOTAL.....	334	378	6,687	136	60	83	74	17	7	1	...	...
Multiunit companies, total.....	88	132	3,948	35	17	28	32	12	7	1	...	...
1 establishment <sup>1</sup> .....	60	60	1,781	8	9	22	17	2	1	1	...	...
2 establishments.....	17	35	1,229	8	4	3	12	6	2	...	...	...
3 or 4 establishments.....	9	25	...	7	4	3	3	4	4	...	...	...
5 or 6 establishments.....	1	5	938	5	...	...	...	...	...	...	...	...
7 to 9 establishments.....	1	7	...	7	...	...	...	...	...	...	...	...
Single unit companies.....	246	246	2,739	101	43	55	42	5	...	...	...	...

<sup>1</sup>Represents companies having at least one establishment classified in other industries.



# Sand and Gravel

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Industry 1441, Sand and Gravel. This industry represents establishments primarily engaged in operating sand and gravel pits and dredges, and in washing, screening, and otherwise preparing sand and gravel for construction and other special uses such as glassmaking, molding, and abrasives. Separate subindustry statistics are shown throughout the report for establishments primarily engaged in producing "Common Sand and Gravel," "Glass Sand," and "Molding Sand."

Census figures for the Sand and Gravel Industry exclude for 1958, as for previous years, data on production by Federal, State, and local governments. According to the Bureau of Mines, "government and contractor" operations, principally of this type, produced about 29 percent of all sand and gravel in both 1958 and 1954. Some of the sand and gravel covered in the census, however, is for government use. For 1958, it was indicated that at least 4 percent of all sand and gravel production reported in the census was for use by the reporting company as contractor or subcontractor on Federal, State, and local government projects.

Establishments included in the 1958 minerals census, as in previous minerals censuses, represent only establishments primarily engaged in producing sand and gravel. Establishments engaged in producing sand and gravel as a secondary activity in conjunction with the production of concrete brick and block, ready-mixed concrete, asphalt and tar paving mixtures, or other manufactured products are classified in the Census of Manufactures, and data for them are included only in tables 1, 2, 5, and 6 of this report. Production of sand and gravel by such operations amounted to about 61 million tons valued at about \$71 million as compared with net shipments of 481 million tons valued at \$518 million from all establishments reported which were classified in the Sand and Gravel Industry, and 8 million tons produced as secondary products in other mineral industries.

The total value of shipments of the Sand and Gravel Industry in 1958 was \$561 million of which primary products of this industry amounted to \$519 million and secondary products, products purchased and resold without further processing, and receipts for services amounted to \$41 million. The principal secondary products were ready-mixed concrete, \$9 million; asphalt paving mixtures, \$5 million; and crushed and broken stone, \$4 million. Of the total value of shipments, the Common Sand and Gravel Subindustry accounted for \$516 million; the Glass Sand Subindustry, \$28 million; and the Molding Sand Subindustry, \$16 million.

The general statistics (employment, payrolls, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the production of secondary products, and in the performance of contract work for others. This fact should be taken into account in comparing industry statistics (tables 1-4 and

7-12) with product statistics (table 6) showing shipments for all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5 which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

The Bureau of the Census statistics on primary products of the Sand and Gravel Industry are not entirely comparable to statistics for the same commodities published by the Bureau of Mines. This is due primarily to the exclusion in Census statistics of sand and gravel production by Federal, State, and local governments. The most nearly comparable statistics from the two bureaus are shown in the table below. As indicated in this table, the Bureau of Mines shows separately figures for "commercial operations" and "government-and-contractor operations." Census figures include all of the first of these groups of establishments and some establishments in the second group, insofar as the latter represents contractors or subcontractors on Federal, State, or local government projects which were able to provide separate complete reports for their sand and gravel mining.

In order to provide more comparable Bureau of the Census and Bureau of Mines totals, the 1958 and 1954 Census report forms included a special inquiry requesting information on the extent to which sand and gravel was produced for own use as a general contractor or subcontractor on Federal, State, and local government projects; produced under contract for Federal, State, and local governments; and all other sand and gravel produced. This inquiry was incompletely reported for 1958. However, the data reported indicated that at least 24 million tons of sand and gravel were produced by contractors for own use as contractor or subcontractor on government projects. Thus, although the Census total figure for sand and gravel produced, 553 million tons, exceeds the Bureau of Mines figure for commercial operations, 489 million tons, by 13 percent, when the Census figure is adjusted to exclude the 24 million tons of sand and gravel for own use on government projects, the Census total excess over that of the Bureau of Mines is reduced to 8 percent.

Other reasons for differences in the product statistics are:

- (1) The Bureau of the Census collects information on production and shipments and calculates net shipments whereas the Bureau of Mines obtains figures on products sold or used.

- (2) The Bureau of the Census excludes small establishments whose value of products and reported costs were below \$500. The Bureau of Mines includes all reports obtained regardless of size. However, the contribution to products of such establishments which Census excludes is usually small.

- (3) Differences exist in coverage in certain areas for both collecting agencies.

## MINERAL INDUSTRIES--INDUSTRY STATISTICS

QUANTITY AND VALUE OF SAND AND GRAVEL AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU OF MINES FOR THE UNITED STATES, ALASKA, AND HAWAII: 1958

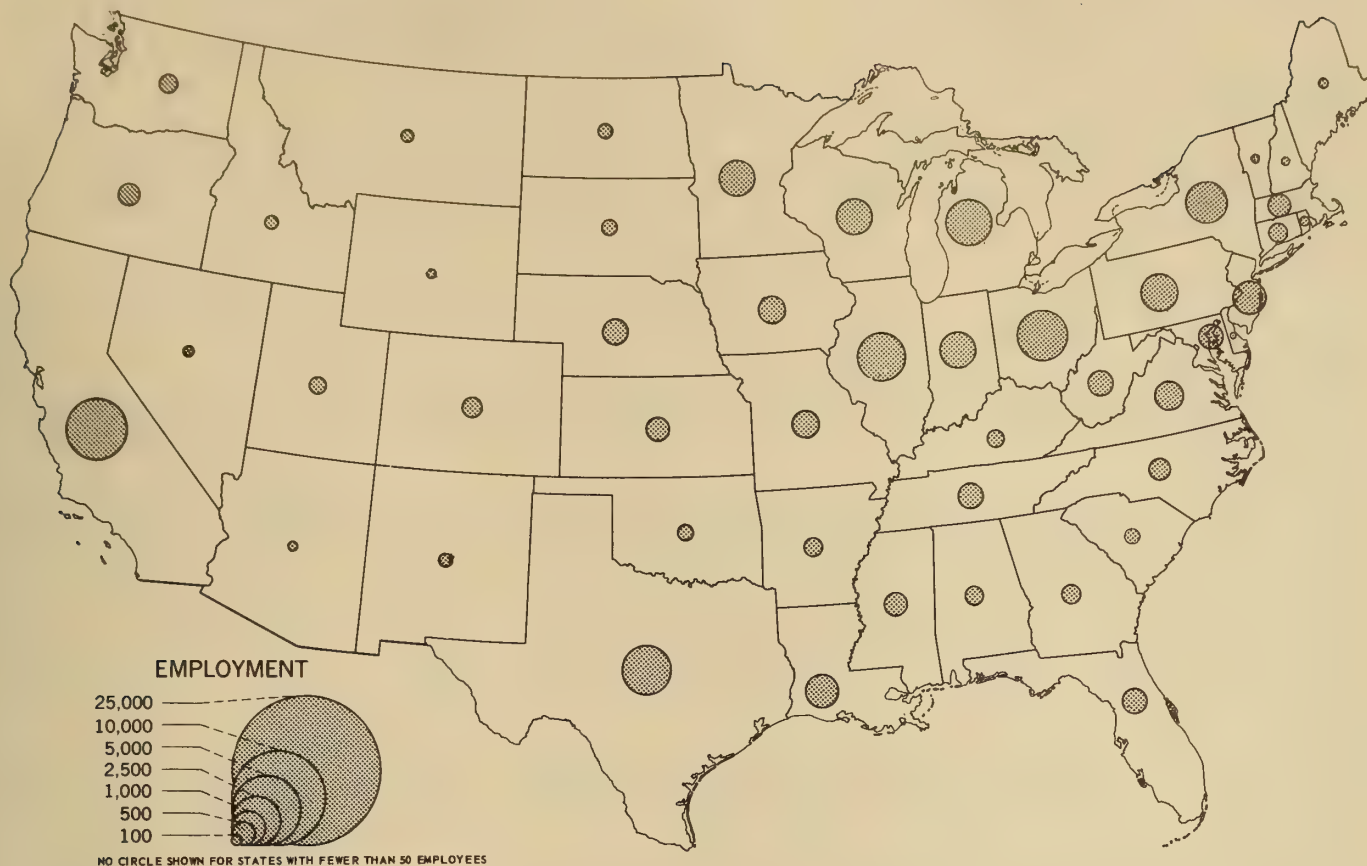
Product	Bureau of the Census statistics			Bureau of Mines statistics	
	Production (1,000 short tons)	Shipments including interplant transfers		Sold or used by producers	
		Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
Common sand, total.....	(NA)	(NA)	(NA)	230,451	220,386
Excluding Federal, State, and local government operations....	<sup>1</sup> 232,708	<sup>1</sup> 219,407	<sup>1</sup> 219,246	(NA)	(NA)
Commercial.....	(NA)	(NA)	(NA)	200,371	203,428
Government and contractor.....	(NA)	(NA)	(NA)	30,080	16,958
Glass sand.....	7,446	7,421	21,955	5,575	17,858
Molding sand.....	7,763	7,709	19,021	5,632	12,827
Gravel, total.....	(NA)	(NA)	(NA)	442,840	401,718
Excluding Federal, State, and local government operations....	<sup>1</sup> 306,042	<sup>1</sup> 292,516	<sup>1</sup> 309,606	(NA)	(NA)
Commercial.....	(NA)	(NA)	(NA)	277,716	291,170
Government and contractor.....	(NA)	(NA)	(NA)	165,124	110,548

<sup>1</sup>Figures for Common sand exclude and figures for Gravel include sand produced in Alaska and Hawaii.

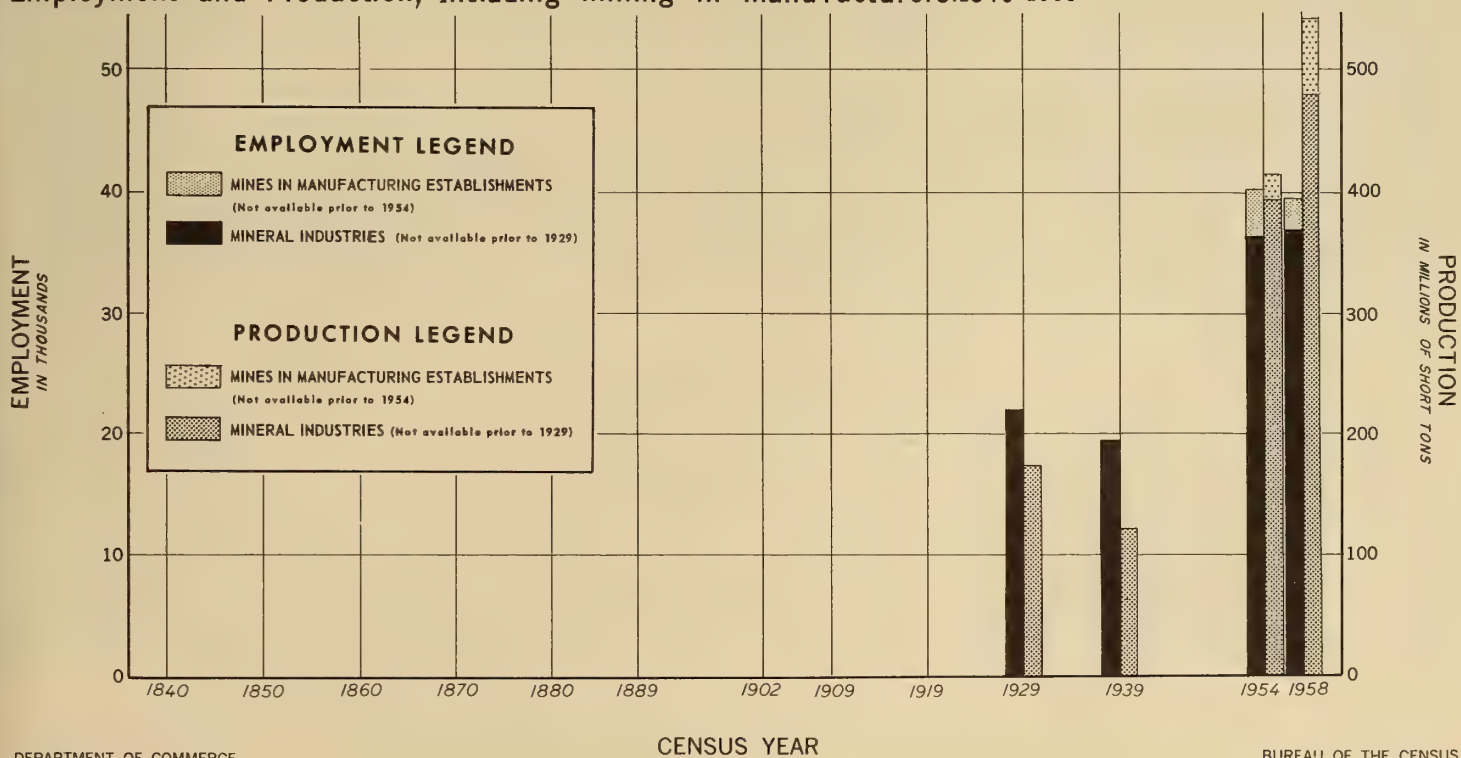


# SAND AND GRAVEL

## Distribution of Employment by State:1958



## Employment and Production, Including Mining in Manufacturers:1840-1958



## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanations of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. 1.)

Industry code, industry, and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, minerals received for preparation, fuels, purchased electricity, and contract work (\$1,000)	Cost of purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Value of net shipments and receipts (\$1,000)	Quantity of sand and gravel <sup>1</sup> (1,000 short tons)	Capital expenditures (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1441—Sand and gravel and Sand and gravel mining in manufactures:															
1958, total.....	<sup>r</sup> 23,690	4,084	509	39,589	183,345	33,171	71,562	145,460	497,864	151,714	(NA)	631,485	622,885	542,424	(NA)
Sand and gravel industry.....	<sup>2</sup> 3,350	3,703	482	37,048	172,326	30,630	66,480	134,441	434,468	144,431	38,469	560,806	552,206	481,251	56,562
Mining in manufacturing establishments.....	371	381	27	<sup>3</sup> 2,541	<sup>3</sup> 11,019	<sup>3</sup> 2,541	5,082	11,019	63,396	7,283	(NA)	470,679	470,679	61,173	(NA)
1954, total.....	(NA)	(NA)	(NA)	40,278	<sup>r</sup> 162,013	34,345	77,727	133,666	(NA)	(NA)	(NA)	488,799	478,248	416,030	(NA)
Sand and gravel industry.....	3,340	3,931	454	36,466	147,313	30,533	70,103	118,966	356,729	<sup>5</sup> 107,679	47,694	466,015	<sup>6</sup> 455,464	395,183	46,087
Mining in manufacturing establishments.....	(NA)	(NA)	(NA)	<sup>3</sup> 3,812	<sup>r</sup> 34,700	<sup>3</sup> 3,812	7,624	14,700	(NA)	(NA)	(NA)	<sup>4</sup> 22,784	422,784	20,847	(NA)
1939 <sup>7</sup> .....	1,253	1,569	(NA)	19,777	25,215	16,959	35,785	18,822	61,935	<sup>5</sup> 17,468	(NA)	(NA)	79,403	122,547	(NA)
1929 <sup>8</sup> .....	(NA)	1,072	(NA)	22,028	37,015	18,061	(NA)	25,385	89,235	23,212	7,963	(NA)	112,447	175,297	(NA)
Common sand and gravel subindustry:															
1958.....	3,213	3,534	447	34,164	159,384	28,268	61,733	124,802	401,700	132,031	35,177	516,090	508,256	465,278	52,818
1954.....	3,196	3,756	426	34,090	138,558	28,423	65,600	111,600	334,046	99,955	45,825	435,662	(NA)	383,630	44,164
1939 <sup>7</sup> .....	1,129	1,383	(NA)	17,029	21,929	14,584	31,324	16,482	53,870	15,260	(NA)	(NA)	69,130	115,543	(NA)
1929.....	(NA)	957	(NA)	19,666	33,526	15,994	(NA)	22,780	81,159	21,153	7,174	(NA)	102,312	168,886	(NA)
Glass sand subindustry:															
1958.....	39	45	19	1,628	7,497	1,339	2,833	5,730	20,672	8,014	2,360	28,343	(D)	6,311	2,703
1954.....	40	44	20	1,295	5,098	1,144	2,505	4,279	13,701	5,021	965	18,591	(NA)	5,535	1,096
1939.....	32	40	(NA)	1,522	2,056	1,280	2,667	1,456	4,625	1,512	(NA)	(NA)	6,137	3,175	(NA)
1929.....	(NA)	25	(NA)	1,125	1,592	1,030	(NA)	1,314	4,082	1,277	433	(NA)	5,359	2,187	(NA)
Molding sand subindustry:															
1958.....	98	124	16	1,256	5,445	1,023	1,914	3,909	12,096	4,386	932	16,373	(D)	6,034	1,041
1954.....	105	131	8	1,081	3,657	966	1,998	3,087	8,982	2,703	904	11,762	(NA)	6,018	827
1939.....	97	146	(NA)	1,226	1,230	1,095	1,794	884	3,440	696	(NA)	(NA)	4,136	3,829	(NA)
1929.....	(NA)	90	(NA)	1,237	1,897	1,037	(NA)	1,291	3,994	782	356	(NA)	4,776	4,224	(NA)

D Withheld to avoid disclosing figures for individual companies. <sup>r</sup>Revised.

NA Not available.

<sup>1</sup>Represents the product indicated by the name of the industry or subindustry. For 1958, for the mineral industries, represents net shipments (gross shipments less sand and gravel received for preparation). For sand and gravel mining in manufactures, represents gross shipments plus production of sand and gravel for use in the same establishment in the manufacture of concrete brick and block, ready-mixed concrete, and asphalt and tar paving mixtures. For 1954, for the mineral industries, represents gross shipments. For 1939 and 1929, represents production.

<sup>2</sup>Represents the sum of figures shown for the separate subindustries and probably includes some duplication due to the same company operating in more than one industry or subindustry.

<sup>3</sup>Number of production and development workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are shown for Production and development workers and for All employees.

<sup>4</sup>Includes the estimated value of sand and gravel produced and used in the same establishment in the manufacture of concrete brick and block, ready-mixed concrete, and asphalt and tar paving mixtures.

<sup>5</sup>Excludes the cost of sand and gravel received for preparation.

<sup>6</sup>Represents the value of shipments and receipts less the value of shipments of products purchased for resale without further processing. Not adjusted to exclude the value of sand and gravel transferred to other establishments for preparation, for which separate data are not available.

<sup>7</sup>Excludes data for 2 nonproducing operations.

<sup>8</sup>For 1939, excludes common sand and gravel establishments that produced less than 15,000 tons unless reported principal expenses or cost of buildings, machinery, and equipment acquired during the year at such an establishment amounted to \$15,000 or more. For 1929, excludes all common sand and gravel establishments that produced less than 25,000 tons. For 1954, about 3 percent of the total common sand and gravel produced was from establishments with output of less than 15,000 tons. For 1939 and 1929, excludes all establishments engaged only in producing unprepared sand and gravel; unprepared sand and gravel amounted to only about 4 percent of the tabulated production in the 1939 Census, as compared with 11 percent of tabulated production for 1954. For 1939 and 1929, excludes operations of companies producing sand and gravel exclusively for their own use, such as construction companies and railroads; if separate records for these mining activities were available they were included for later years.



Table 2.—General Statistics by Divisions, States, Alaska and Hawaii, and Type of Operation: 1958 and 1954

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries by State see table 2 of the corresponding chapter of 1954 Census of Mineral Industries, Vol. I)

Ind code	Industry, division, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of primary products <sup>2</sup>	Capital expendi- tures	All em- ployees, number	Value added in mining
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1441	SAND AND GRAVEL, TOTAL <sup>3</sup> ....	3,703	482	37,048	172,326	30,630	66,480	134,441	434,468	182,900	560,806	481,251	56,562	36,466	356,729
	Common sand and gravel sub- industry.....	3,534	447	34,164	159,384	28,268	61,733	124,802	401,700	167,208	516,090	465,278	52,818	34,090	334,046
	Glass sand subindustry.....	45	19	1,628	7,497	1,339	2,833	5,730	20,672	10,374	28,343	6,311	2,703	1,295	13,701
	Molding sand subindustry.....	124	16	41,256	45,445	1,023	1,914	3,909	12,096	5,318	16,373	6,034	1,041	1,081	8,982
	Division and State														
	New England, total.....	222	12	1,402	6,531	1,116	2,265	4,868	14,762	6,821	19,280	17,037	2,303	1,437	12,318
	Common sand and gravel subindustry.....	215	11	1,365	6,381	1,082	2,189	4,735	14,367	6,704	18,783	16,866	2,288	(NA)	(NA)
	Glass sand and molding sand subindustries.....	7	1	37	150	34	76	133	395	117	497	84	15	(NA)	(NA)
	Maine.....	29	...	105	329	98	184	311	907	419	1,109	1,176	217	79	462
	New Hampshire.....	19	1	89	507	74	164	377	884	594	1,391	986	87	99	846
	Vermont.....	22	1	91	314	74	138	240	670	458	911	782	217	100	644
	Massachusetts.....	88	4	589	2,770	467	946	2,114	6,112	2,903	8,130	7,659	885	732	5,761
	Rhode Island.....	13	2	105	441	88	168	356	1,116	400	1,322	1,219	194	87	795
	Connecticut.....	51	4	423	2,170	315	665	1,470	5,073	2,047	6,417	5,215	703	340	3,810
	Middle Atlantic, total.....	381	47	4,257	22,157	3,381	7,045	16,219	50,046	21,070	66,218	46,501	4,898	4,389	53,224
	Common sand and gravel subindustry.....	340	37	3,318	18,004	2,617	5,628	13,237	41,501	16,379	53,676	42,512	4,204	3,689	46,727
	Glass sand subindustry.....	6	3	356	1,664	292	589	1,314	3,580	2,400	5,851	1,387	129	700	6,497
	Molding sand subindustry...	35	7	583	2,489	472	828	1,668	4,965	2,291	6,691	1,977	565		
	New York, total.....	203	15	1,753	10,234	1,308	2,783	7,237	25,375	7,325	30,494	25,524	2,206	1,777	23,542
	Common sand and gravel subindustry.....	187	15	1,646	9,643	1,259	2,677	7,072	24,740	7,138	29,721	25,113	2,157	1,707	23,026
	Molding sand subindustry...	16	...	107	591	49	106	165	635	187	773	225	49	70	516
	New Jersey, total.....	89	18	1,174	5,627	1,000	2,123	4,445	12,889	6,006	17,289	9,984	1,606	1,009	10,829
	Common sand and gravel subindustry.....	75	10	708	3,556	585	1,336	2,768	7,785	2,993	9,608	7,481	1,170	650	6,976
	Glass sand and molding sand subindustries.....	14	8	466	2,071	415	787	1,677	5,104	3,013	7,681	2,329	436	359	3,853
	Pennsylvania, total.....	89	14	1,330	6,296	1,073	2,139	4,537	11,782	7,739	18,435	10,993	1,086	1,603	18,853
	Common sand and gravel subindustry.....	78	12	964	4,805	773	1,615	3,397	8,976	6,248	14,347	9,918	877	1,332	16,725
	Glass sand and molding sand subindustries.....	11	2	366	1,491	300	524	1,140	2,806	1,491	4,088	810	209	271	2,128
	East North Central, total.....	1,043	112	9,700	46,998	7,950	16,719	36,590	116,602	46,396	148,541	131,027	14,457	8,245	83,604
	Common sand and gravel subindustry.....	990	103	8,887	42,884	7,299	15,373	33,601	105,397	41,545	133,829	125,063	13,113	7,741	78,798
	Glass sand subindustry.....	6	3	368	2,032	298	644	1,472	6,018	2,960	7,973	1,363	1,005	504	4,806
	Molding sand subindustry...	47	6	445	2,082	353	702	1,517	5,187	1,891	6,739	2,904	339		
	Ohio, total.....	289	28	2,604	12,403	2,098	4,460	9,505	31,576	10,206	37,977	29,513	3,805	2,267	23,844
	Common sand and gravel subindustry.....	270	24	2,337	11,274	1,868	4,008	8,528	28,789	8,887	34,083	28,371	3,593	2,061	22,753
	Glass sand and molding sand subindustries.....	19	4	267	1,129	230	452	977	2,787	1,319	3,894	809	212	206	1,091
	Indiana.....	178	13	1,335	6,377	1,040	2,367	4,484	12,917	5,937	17,208	17,412	1,646	1,265	10,952
	Illinois, total.....	171	35	2,370	12,306	1,977	4,076	9,664	32,745	13,712	42,565	34,558	3,892	1,907	20,412
	Common sand and gravel subindustry.....	161	34	2,069	10,714	1,744	3,596	8,591	27,984	11,590	36,496	32,290	3,078	1,829	19,975
	Glass sand and molding sand subindustries.....	10	1	301	1,592	233	480	1,073	4,761	2,122	6,069	1,289	814	78	437
	Michigan, total.....	243	21	2,102	10,050	1,753	3,599	8,174	26,024	9,779	32,807	31,878	2,996	1,735	19,260
	Common sand and gravel subindustry.....	235	19	1,990	9,438	1,664	3,394	7,732	23,714	9,104	30,050	30,407	2,768	1,615	17,086
	Glass sand and molding sand subindustries.....	8	2	112	612	89	205	442	2,310	675	2,757	1,333	228	120	2,174
	Wisconsin, total.....	162	15	1,289	5,862	1,082	2,217	4,763	13,340	6,762	17,984	17,666	2,118	1,071	9,136
	Common sand and gravel subindustry.....	153	13	1,205	5,399	1,009	2,058	4,371	12,386	6,142	16,479	16,971	2,049	998	8,391
	Molding sand subindustry...	9	2	84	463	73	159	392	954	620	1,505	540	69	73	745
	West North Central, total.....	636	53	4,456	19,757	3,676	7,931	15,349	44,747	20,699	58,407	55,939	7,039	4,487	37,372
	Common sand and gravel subindustry.....	627	51	4,364	19,376	3,596	7,764	15,034	44,014	20,142	57,248	55,371	6,908	(NA)	(NA)
	Glass sand and molding sand subindustries.....	9	2	92	381	80	167	315	733	557	1,159	428	131	(NA)	(NA)
	Minnesota.....	151	15	1,282	6,397	984	2,305	4,435	14,256	6,467	18,858	15,146	1,865	1,044	8,784
	Iowa.....	111	7	727	3,170	611	1,309	2,622	8,546	3,237	10,474	9,607	1,309	674	6,539
	Missouri.....	84	13	788	3,085	675	1,332	2,468	6,307	3,162	8,573	7,235	896	778	6,629
	North Dakota and South Dakota	72	5	442	2,052	393	859	1,666	4,387	2,364	5,450	6,350	1,301	641	5,088
	Nebraska.....	122	7	705	2,754	601	1,202	2,284	5,945	3,155	8,278	10,016	822	682	4,803
	Kansas.....	96	6	512	2,299	412	924	1,874	5,306	2,314	6,774	7,585	846	668	5,525

See footnotes at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 2.—General Statistics by Divisions, States, Alaska and Hawaii, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, division, State, and type of operation <sup>1</sup>	1958										1954				
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts <sup>2</sup>	Quantity of primary products (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining	
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)								
1441	SAND AND GRAVEL—Continued															
	South Atlantic, total.....	304	59	4,193	16,472	3,606	7,652	13,130	43,522	20,384	58,155	45,984	5,751	4,144	36,201	
	Common sand and gravel subindustry.....	292	53	3,654	14,329	3,164	6,732	11,557	37,961	17,804	50,811	44,193	4,954	(NA)	(NA)	
	Glass sand and molding sand subindustries.....	12	6	539	2,143	442	920	1,573	5,561	2,580	7,344	1,335	797	(NA)	(NA)	
	Delaware.....	10	...	60	228	51	87	175	599	171	686	730	84	50	566	
	Maryland.....	42	11	748	3,249	630	1,304	2,428	7,609	5,780	11,389	7,361	2,000	927	8,799	
	Virginia.....	46	11	848	3,268	728	1,661	2,640	9,034	3,178	11,476	8,157	736	961	9,341	
	West Virginia.....	25	8	620	2,786	490	964	2,112	8,312	2,390	10,275	4,952	427	757	7,107	
	North Carolina.....	44	9	486	1,555	431	909	1,301	4,324	1,583	5,367	5,214	540	480	3,606	
	South Carolina.....	32	3	304	1,111	267	535	934	3,246	1,820	4,227	3,952	839	323	2,182	
	Georgia.....	42	7	463	1,612	436	858	1,485	3,776	1,844	5,258	4,917	362	322	2,179	
	Florida.....	63	10	664	2,663	573	1,334	2,055	6,622	3,618	9,477	10,701	763	324	2,421	
	East South Central, total.....	155	35	2,030	7,743	1,733	4,347	6,154	17,848	8,593	22,812	20,664	3,629	2,166	14,450	
	Common sand and gravel subindustry.....	142	33	1,893	7,304	1,620	4,110	5,785	16,675	8,115	21,457	19,667	3,333	(NA)	(NA)	
	Glass sand and molding sand subindustries.....	13	2	137	439	113	237	369	1,173	478	1,355	805	296	(NA)	(NA)	
	Kentucky.....	32	6	362	1,809	297	773	1,338	3,713	1,502	4,254	4,344	961	412	3,312	
	Tennessee.....	45	10	611	2,408	539	1,561	1,954	5,204	2,741	6,937	5,878	1,008	762	4,731	
	Alabama.....	33	9	391	1,233	330	711	996	2,989	1,145	3,588	3,527	546	450	2,527	
	Mississippi.....	45	10	666	2,293	567	1,302	1,866	5,942	3,205	8,033	6,915	1,114	542	3,880	
	West South Central, total.....	354	74	4,414	16,990	3,849	9,229	14,134	43,376	21,100	57,877	45,927	6,599	4,362	31,460	
	Common sand and gravel subindustry.....	345	71	4,274	16,488	3,727	8,979	13,718	41,703	20,236	55,510	45,062	6,429	(NA)	(NA)	
	Glass sand and molding sand subindustries.....	9	3	140	502	122	250	416	1,673	864	2,367	653	170	(NA)	(NA)	
	Arkansas.....	34	6	389	1,347	329	655	1,016	2,845	1,578	4,013	2,719	410	427	3,139	
	Louisiana.....	77	24	1,223	4,648	1,043	2,592	3,824	11,684	6,984	16,891	13,283	1,777	1,119	7,363	
	Oklahoma, total.....	52	4	333	1,234	280	591	1,041	3,278	1,444	4,437	4,051	285	363	2,956	
	Common sand and gravel subindustry.....	49	3	268	977	227	470	837	2,228	1,002	3,051	3,655	179	287	2,334	
	Glass sand and molding sand subindustries.....	3	1	65	257	53	121	204	1,050	442	1,386	348	106	76	622	
	Texas.....	191	40	2,469	9,761	2,197	5,391	8,253	25,569	11,094	32,536	25,874	4,127	2,453	18,002	
	Mountain, total.....	227	15	1,869	9,171	1,584	3,276	7,566	30,507	8,439	35,219	47,205	3,727	1,597	16,392	
	Common sand and gravel subindustry.....	218	14	1,813	8,895	1,536	3,176	7,341	29,979	8,134	34,447	46,791	3,666	(NA)	(NA)	
	Glass sand and molding sand subindustries.....	9	1	56	276	48	100	225	528	305	772	339	61	(NA)	(NA)	
	Montana.....	32	2	192	968	168	327	797	3,467	932	3,656	2,373	743	215	1,337	
	Idaho.....	25	1	178	705	158	280	631	1,760	954	2,597	2,772	117	195	1,868	
	Wyoming.....	16	1	94	405	84	178	376	1,053	319	1,197	1,525	175	81	319	
	Colorado.....	55	3	457	2,302	358	798	1,790	5,639	2,069	7,340	7,258	368	482	5,028	
	New Mexico.....	26	4	309	1,323	270	545	1,066	3,769	1,309	4,261	5,227	817	161	3,092	
	Arizona.....	33	...	108	360	96	149	325	993	516	1,358	1,051	151	121	1,349	
	Utah.....	26	2	379	2,308	326	710	1,955	12,030	1,772	12,538	25,306	1,264	161	1,409	
	Nevada.....	14	2	152	800	124	289	626	1,796	568	2,272	1,693	92	181	1,990	
	Pacific, total.....	381	75	4,727	26,507	3,735	8,016	20,431	73,058	29,398	94,297	70,967	8,159	5,639	71,708	
	Common sand and gravel subindustry.....	365	74	4,596	25,723	3,627	7,782	19,794	70,103	28,149	90,329	69,753	7,923	(NA)	(NA)	
	Glass sand and molding sand subindustries.....	16	1	131	784	108	234	637	2,955	1,249	3,968	1,070	236	(NA)	(NA)	
	Washington.....	61	9	427	2,148	360	667	1,789	5,942	2,634	7,667	8,264	909	914	8,601	
	Oregon.....	70	5	532	2,760	437	862	2,221	5,059	3,889	7,864	4,903	1,084	913	8,932	
	California, total.....	250	61	3,768	21,599	2,938	6,487	16,421	62,057	22,875	78,766	57,800	6,166	3,812	54,175	
	Common sand and gravel subindustry.....	239	60	3,645	20,864	2,837	6,271	15,828	59,282	21,660	74,969	56,617	5,973	3,693	51,890	
	Glass sand and molding sand subindustries.....	11	1	123	735	101	216	593	2,775	1,215	3,797	1,043	193	119	2,285	
	Alaska and Hawaii.....	5	2	111	431	99	194	379	971	391	1,332	677	30	29	854	
	SAND AND GRAVEL MINING IN MANUFACTURING ESTABLISHMENTS, TOTAL.....	381	27	2,541	11,019	2,541	5,082	11,019	63,396	7,283	70,679	61,173	(NA)	3,812	(NA)	
	Region															
	New England.....	33	1	127	552	127	253	552	3,342	365	3,707	3,820				
	Massachusetts.....	18	1	82	370	82	164	370	2,566	216	2,782	2,951				
	Middle Atlantic.....	45	3	284	1,088	284	568	1,088	6,765	656	7,421	5,949				
	Pennsylvania.....	19	2	150	518	150	299	518	1,808	409	2,217	1,528				
	East North Central, total.....	73	4	342	1,447	342	685	1,447	10,858	706	11,564	8,931	(NA)	(NA)	(NA)	
	Ohio.....	16	...	70	312	70	140	312	1,928	104	2,032	1,884				
	Indiana.....	17	1	72	275	72	143	275	1,213	93	1,306	1,371				
	Illinois.....	8	2	69	277	69	139	277	4,024	130	4,154	2,098				
	Michigan.....	18	...	66	315	66	132	315	2,407	195	2,602	1,969				
	Wisconsin.....	14	1	65	268	65	131	268	1,286	184	1,470	1,609				

See footnotes at end of table.



Table 2.—General Statistics by Divisions, States, Alaska and Hawaii, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, division, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts <sup>2</sup>	Quantity of primary products (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1441	SAND AND GRAVEL—Continued														
	West North Central.....	50	3	210	759	210	420	759	3,737	511	4,248	4,683	(NA)	(NA)	(NA)
	Minnesota.....	16	1	76	262	76	152	262	1,528	196	1,724	1,440			
	South Atlantic.....	24	3	229	1,047	229	458	1,047	5,873	624	6,497	4,880			
	Florida.....	5	2	138	585	138	275	585	2,813	329	3,142	2,470			
	East South Central.....	8	2	70	214	70	139	214	1,692	203	1,895	1,279			
	West South Central.....	18	4	368	1,328	368	737	1,328	5,490	759	6,249	6,234			
	Texas.....	11	3	184	559	184	367	559	2,554	428	2,982	2,541			
	Mountain.....	56	3	477	2,267	477	954	2,267	12,796	1,655	14,451	11,899			
	Idaho.....	9	...	34	149	34	68	149	1,342	125	1,467	1,022			
	Colorado.....	8	1	63	257	63	126	257	2,343	201	2,544	2,173			
	New Mexico.....	5	...	50	227	50	100	227	2,057	233	2,290	1,879			
	Arizona.....	11	2	282	1,401	282	563	1,401	5,287	919	6,206	5,041			
	Pacific, total.....	74	4	434	2,317	434	868	2,317	12,843	1,804	14,647	13,498			
	Washington.....	20	...	90	491	90	180	491	3,215	352	3,567	3,091			
	Oregon.....	16	1	59	255	59	117	255	1,999	93	2,092	1,647			
	California.....	38	3	285	1,571	285	571	1,571	7,629	1,359	8,988	8,760			
	Type of operation														
	Common sand and gravel sub-industry:														
	Producing establishments, total.....	3,511	447	434,128	459,232	28,240	61,679	124,690	401,640	167,113	516,090	465,278	52,663	(NA)	(NA)
	Bank:														
	Mining only.....	174	6	645	2,623	546	1,007	2,111	10,018	3,898	12,248	10,978	1,668	301	2,362
	Mining with preparation:														
	Including crushing.....	272	34	3,033	15,537	2,419	4,919	11,642	33,979	12,789	42,355	39,145	4,413	3,520	34,599
	Screening and other methods only.....	117	11	810	3,731	659	1,364	2,991	8,057	3,566	10,723	8,932	900		
	Bank and wet pit.....	299	78	5,305	24,363	4,531	10,490	19,526	60,661	26,470	78,809	64,419	8,322	2,821	25,453
	Bank and dry pit.....	233	32	2,437	12,018	2,068	4,392	9,850	30,819	11,989	39,234	38,565	3,574	(NA)	(NA)
	Bank and river.....	38	8	496	2,356	388	978	1,675	5,985	2,321	7,364	5,066	942	(NA)	(NA)
	Bank and lake or ocean.....	16	3	221	1,010	186	515	819	1,991	1,086	2,636	2,311	441	(NA)	(NA)
	Wet pit:														
	Mining only.....	27	1	76	188	70	109	173	617	445	902	1,187	160	69	512
	Mining with preparation:														
	Including crushing.....	151	21	1,582	7,381	1,369	3,245	6,157	18,242	6,822	22,552	19,356	2,512	5,745	54,757
	Including screening but no crushing.....	194	10	1,227	5,083	1,080	2,420	4,438	11,931	5,445	16,002	17,514	1,374		
	Washing and other methods only.....	49	3	242	847	221	449	773	2,242	1,113	3,079	3,596	276		
	Wet pit and dry pit.....	54	9	812	3,208	677	1,590	2,609	9,385	3,569	11,802	9,868	1,152	798	7,032
	Wet pit and river.....	18	2	146	526	82	163	313	802	652	1,296	1,174	158	(NA)	(NA)
	Wet pit and lake or ocean.....	25	3	313	1,634	262	594	1,296	2,998	2,960	5,834	4,576	124	(NA)	(NA)
	Dry pit:														
	Mining only.....	335	13	1,719	7,280	1,560	3,306	6,685	27,571	8,510	29,677	42,790	6,404	348	2,786
	Mining with preparation:														
	Including crushing.....	455	93	5,989	29,948	4,959	10,340	23,884	80,578	33,101	103,977	85,186	9,702	10,359	106,255
	Including screening but no crushing.....	219	25	1,794	7,599	1,563	3,785	6,413	22,086	9,431	29,690	23,138	1,827		
	Including washing but no crushing or screening.....	40	1	207	901	184	373	735	2,628	1,162	3,551	2,258	239		
	Other preparation methods only.....	13	...	88	401	58	96	274	721	581	1,239	1,386	63		
	Dry pit and river, lake, or ocean.....	19	4	273	1,174	226	555	907	2,355	1,623	3,525	2,612	453		
	River:														
	Mining only.....	31	2	149	552	133	254	450	1,389	526	1,722	1,182	193	(NA)	(NA)
	Mining with preparation:														
	Including crushing.....	72	24	1,388	7,363	1,161	2,547	5,545	14,613	7,368	20,552	14,738	1,429		
	Including screening but no crushing.....	112	11	919	4,094	779	1,785	3,303	8,315	2,963	10,263	12,136	1,015		
	Washing and other methods only.....	27	4	267	1,155	230	577	928	2,408	989	3,107	3,395	290		
	Lake or ocean:														
	Mining only.....	6	...	34	177	30	97	152	343	337	668	2,758	12		
	Mining with preparation:														
	Including crushing.....	4	3	91	577	79	247	471	1,942	343	2,163	1,602	122		
	Screening and other methods only.....	28	2	211	924	174	448	730	1,783	593	2,169	2,485	207		
	Preparation plants only.....	10	...	69	324	51	96	237	851	556	1,347	540	60		
	Unspecified types.....	473	44	2,955	11,617	2,495	4,938	9,603	36,330	15,905	47,604	42,385	4,631		
	Nonproducing establishments.....	23	...	36	152	28	54	112	60	95	...	...	155		

See footnotes at end of table.

Table 2.—General Statistics by Divisions, States, Alaska and Hawaii, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, division, State and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of primary products <sup>2</sup> (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1441	SAND AND GRAVEL—Continued														
	Glass sand subindustry:														
	Producing bank.....	7	3	131	552	115	264	454	1,567	710	2,027	648	250	}	(NA)
	Including crushing.....	3	2	91	367	78	182	293	826	510	1,151	371	185		
	Producing wet pit.....	6	2	341	1,775	274	620	1,251	5,159	2,509	6,572	1,206	1,096		
	Producing dry pit:														
	Mining with preparation including crushing.....	13	8	840	3,778	685	1,341	2,931	10,245	4,185	14,004	2,443	426	}	(NA)
	Other types.....	10	3	152	661	132	302	567	1,339	644	1,710	1,142	273		
	Other producing establishments and nonproducing establishments.....	9	3	164	731	133	306	527	2,362	2,326	4,030	872	658		
	Molding sand subindustry:														
	Producing establishments, total.....	124	16	1,191	4,883	1,023	1,914	3,909	12,096	5,318	16,373	6,034	1,041	1,081	8,982
	Bank:														
	Mining with preparation including crushing.....	13	2	114	405	94	179	303	727	500	1,195	459	32	}	(NA)
	Other types.....	34	3	249	1,046	213	482	920	2,673	1,351	3,772	1,469	252		
	Bank and pit.....	9	2	196	761	165	251	483	2,302	403	2,601	1,018	104		
	Wet pit:														
	Mining with screening but no crushing.....	8	1	82	323	76	136	299	1,160	460	1,441	425	179	}	(NA)
	Other types.....	10	2	83	328	75	130	289	725	298	990	326	33		
	Dry pit.....	50	6	467	2,020	400	736	1,615	4,509	2,306	6,374	2,337	441		
	Mining with preparation including crushing.....	21	6	349	1,521	297	522	1,216	3,109	1,851	4,600	1,270	360		
	Mining with screening but no crushing.....	19	...	97	406	86	179	324	1,199	369	1,517	952	51		

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>General statistics for all States in the Sand and Gravel Industry except North Dakota and South Dakota are shown separately in this table. For 1958, for North Dakota the number of establishments was 30 and total employment was 176, and for South Dakota the number of establishments was 42 and total employment was 266. Also, for Alaska and Hawaii figures, only combined figures are shown. For 1954, there were 4 establishments reported for Alaska with employment between 10 and 20, and for Hawaii 2 establishments with employment between 10 and 20. For Sand and Gravel Mining in Manufacturing Establishments a number of States are not shown separately in this table to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such States are shown below for 1958, with the number of establishments in each State (and in parentheses the number of employees or employment size range): Maine, 3 (10); New Hampshire, 1 (0-4); Vermont, 4 (0-4); Rhode Island, 2 (5-9); Connecticut, 5 (25); New York, 24 (50-99); New Jersey, 2 (50-99); Iowa, 12 (14); Missouri, 4 (19); North Dakota, 4 (6); South Dakota, 4 (42); Nebraska, 5 (7); Kansas, 5 (47); Delaware, 1 (0-4); Maryland, 6 (58); District of Columbia, 1 (0-4); Virginia, 2 (5-9); West Virginia, 2 (10-19); North Carolina, 3 (0-4); South Carolina, 3 (0-4); Georgia, 1 (0-4); Kentucky, 1 (0-4); Tennessee, 4 (48); Alabama, 3 (20-49); Arkansas, 4 (174); Louisiana, 1 (0-4); Oklahoma, 2 (5-9); Montana, 7 (10-19); Wyoming, 8 (11); Utah, 7 (27); Nevada, 1 (0-4).

<sup>2</sup>Represents the product indicated by the name of the industry or subindustry. For the mineral industries represents net shipments (gross shipments less sand and gravel received for preparation). For sand and gravel mining in manufactures, represents gross shipments plus production of sand and gravel for use in the same establishment in the manufacture of concrete brick and block, ready-mixed concrete, and asphalt and tar paving mixtures.

<sup>3</sup>Excludes figures for Alaska and Hawaii.<sup>4</sup>Includes data for separately reported central offices and related facilities. These were not distributed by detailed types of operation.<sup>5</sup>Includes data for one establishment with river and lake or ocean methods.<sup>6</sup>Includes data for 3 establishments with river and lake or ocean methods.<sup>7</sup>Includes data for one river establishment with crushing.



Table 3A.—Detailed Statistics for the Sand and Gravel Industry, by Divisions and Selected States: 1958

Item	United States, total	New England			Middle Atlantic				East North Central					
		Division	Massachusetts	Connecticut	Division, total	New York	New Jersey	Pennsylvania	Division, total	Ohio	Indiana	Illinois	Michigan	Wisconsin
Number of establishments, total.....	3,703	222	88	51	381	203	89	89	1,043	289	178	171	243	162
With 0-19 employees.....	3,221	210	84	47	334	188	71	75	931	261	165	136	222	147
With 20-99 employees.....	456	12	4	4	43	13	18	12	103	27	13	32	16	15
With 100 employees and over.....	26	...	...	...	4	2	...	2	9	1	...	3	5	...
Net shipments of sand and gravel <sup>1</sup> .....1,000 short tons..	481,251	17,037	7,659	5,215	46,501	25,524	9,984	10,993	137,027	29,513	17,412	34,558	31,878	17,666
Value of shipments and receipts, total.....\$1,000..	560,806	19,280	8,130	6,417	66,218	30,494	17,289	18,435	148,541	37,977	17,208	42,565	32,807	17,984
Sand and gravel transferred to other establishments for preparation and resale.....do....	8,600	302	156	61	1,062	388	221	453	2,548	557	746	778	375	92
Net shipments and receipts.....do....	552,206	18,978	7,974	6,356	65,156	30,106	17,068	17,982	145,993	37,420	16,462	41,787	32,432	17,892
Value added in mining.....do....	434,468	14,762	6,112	5,073	50,046	25,375	12,889	11,782	116,602	31,576	12,917	32,745	26,024	13,340
Number of persons engaged, total.....	40,005	1,521	640	436	4,466	1,859	1,208	1,399	10,529	2,820	1,461	2,505	2,331	1,412
Production and development workers, average for year.....	30,630	1,116	467	315	3,381	1,308	1,000	1,073	7,950	2,098	1,040	1,977	1,753	1,082
Other employees.....	6,418	286	122	108	876	445	174	257	1,750	506	295	393	349	207
Proprietors and firm members.....	2,957	119	51	13	209	106	34	69	829	216	126	135	229	123
Performing manual labor.....	1,592	63	24	6	131	61	22	48	463	130	74	66	123	70
Man-hours worked by production and development workers, total.....1,000..	66,480	2,265	946	665	7,045	2,783	2,123	2,139	16,719	4,460	2,367	4,076	3,599	2,217
At mining operations, total.....do....	35,562	1,421	641	332	3,837	1,441	1,127	1,269	8,536	2,751	1,279	1,898	1,625	983
Underground.....do....	129	...	...	...	...	...	...	...	78	22	21	9	4	22
Open-pit or bank.....do....	28,701	1,391	636	307	2,752	1,239	843	670	7,123	2,182	901	1,593	1,498	949
On floating equipment.....do....	6,732	30	5	25	1,085	202	284	599	1,335	547	357	296	123	12
At preparation plants.....do....	30,918	844	305	333	3,208	1,342	996	870	8,183	1,709	1,088	2,178	1,974	1,234
Man-hours spent on development and exploration work (included above).....do....	835	14	2	7	94	58	32	4	154	31	16	38	52	17
Principal expenses designated below, total.....\$1,000..	316,757	11,871	5,040	3,823	37,991	15,913	10,414	11,664	83,323	19,657	11,026	24,017	17,300	11,323
Wages of production and development workers.....do....	134,441	4,868	2,114	1,470	16,219	7,237	4,445	4,537	36,590	9,505	4,484	9,664	8,174	4,763
Salaries of all other employees.....do....	37,885	1,663	656	700	5,938	2,997	1,182	1,759	10,408	2,898	1,893	2,642	1,876	1,099
Supplies and purchases for resale.....do....	88,753	2,479	1,050	840	9,360	2,851	3,044	3,627	21,455	3,895	2,851	8,174	3,872	2,815
Sand and gravel received for preparation.....do....	870	...	...	...	162	...	...	...	152	...	...	...	...	...
Purchased fuel.....do....	25,342	1,447	631	403	2,856	1,406	696	754	6,387	1,546	669	1,612	1,319	1,241
Purchased electricity.....do....	14,099	616	284	214	1,945	612	653	680	3,927	1,155	622	933	880	337
Contract work.....do....	15,367	798	305	196	1,511	810	394	307	4,404	658	507	992	1,179	1,068
Purchased machinery installed.....do....	38,469	1,481	633	394	5,236	1,646	1,219	2,371	10,071	2,952	1,288	2,001	2,529	1,301
Capital expenditures, total.....do....	56,562	2,303	885	703	4,898	2,206	1,606	1,086	14,457	3,805	1,646	3,892	2,996	2,118
Development and exploration of mineral property.....do....	1,842	7	...	4	199	91	83	25	276	84	22	90	69	11
Preparation plant and other construction and machinery and equipment.....do....	54,720	2,296	885	699	4,699	2,115	1,523	1,061	14,181	3,721	1,624	3,802	2,927	2,107
Energy used....million kwh equivalent..	8,596	409	171	116	955	381	265	309	2,473	627	265	773	476	331
Coal.....1,000 short tons..	107	...	...	...	10	( <sup>2</sup> )	1	9	54	( <sup>2</sup> )	5	48	1	( <sup>2</sup> )
Fuel oil.....1,000 barrels..	1,050	53	8	28	101	26	46	29	344	142	37	42	82	41
Gas.....million cu. ft..	1,642	1	1	...	281	2	163	116	418	254	15	4	145	( <sup>2</sup> )
Other fuels.....\$1,000..	8,117	465	246	110	744	317	235	192	1,676	440	259	411	266	300
Undistributed.....do....	10,340	693	330	108	1,309	918	138	253	2,722	553	228	634	628	679
Electric energy purchased.....million kwh..	862	29	13	13	106	27	36	43	243	59	37	71	60	16
Electric energy generated and used.....do....	32	( <sup>2</sup> )	...	( <sup>2</sup> )	4	( <sup>2</sup> )	( <sup>2</sup> )	(D)	19	(D)	( <sup>2</sup> )	(D)	1	...

See footnotes at end of table.

Table 3A.—Detailed Statistics for the Sand and Gravel Industry, by Divisions and Selected States: 1958—Continued

Item	West North Central						South Atlantic					
	Divi- sion	Minne- sota	Iowa	Missou- ri	Ne- braska	Kansas	Divi- sion	Mary- land	Vir- ginia	West Vir- ginia	Georgia	Florida
Number of establishments, total.....	636	151	111	84	122	96	304	42	46	25	42	63
With 0-19 employees.....	583	136	104	71	115	90	245	31	35	17	35	53
With 20-99 employees.....	52	15	7	12	7	6	54	9	10	7	6	10
With 100 employees and over.....	1	...	...	1	...	...	5	2	1	1	1	...
Net shipments of sand and gravel <sup>1</sup> .....1,000 short tons..	55,939	15,146	9,607	7,235	10,016	7,585	45,984	7,361	8,157	4,952	4,917	10,701
Value of shipments and receipts, total.....\$1,000..	58,407	18,858	10,474	8,573	8,278	6,774	58,155	11,389	11,476	10,275	5,258	9,477
Sand and gravel transferred to other establishments for preparation and resales.....do....	958	665	75	182	1	26	982	634	2	55	1	198
Net shipments and receipts.....do....	57,449	18,193	10,399	8,391	8,277	6,748	57,173	10,755	11,474	10,220	5,257	9,279
Value added in mining.....do....	44,747	14,256	8,546	6,307	5,945	5,306	43,522	7,609	9,034	8,312	3,776	6,622
Number of persons engaged, total.....	5,066	1,402	812	858	859	616	4,463	788	873	638	505	719
Production and development workers, average for year.....	3,676	984	611	675	601	412	3,606	630	728	490	436	573
Other employees.....	780	298	116	113	104	100	587	118	120	130	27	91
Proprietors and firm members.....	610	120	85	70	154	104	270	40	25	18	42	55
Performing manual labor.....	359	66	45	47	99	62	128	26	17	8	13	27
Man-hours worked by production and development workers, total.....1,000..	7,931	2,305	1,309	1,332	1,202	924	7,652	1,304	1,661	964	858	1,334
At mining operations, total....do....	4,273	720	622	899	793	777	4,036	809	658	367	406	813
Underground.....do....	16	6	5	3	...	...	1	...	...	...	1	...
Open-pit or bank.....do....	3,284	694	531	371	643	585	3,291	528	601	315	284	601
On floating equipment.....do....	973	20	86	525	150	192	744	281	57	52	121	212
At preparation plants.....do....	3,658	1,585	687	433	409	147	3,616	495	1,003	597	452	521
Man-hours spent on development and exploration work (included above).....do....	81	10	23	13	...	31	294	242	5	3	23	19
Principal expenses designated below, total.....\$1,000..	36,310	12,210	5,571	5,435	5,501	3,871	32,092	7,301	5,818	4,460	3,224	5,754
Wages of production and development workers.....do....	15,349	4,435	2,622	2,468	2,284	1,874	13,130	2,428	2,640	2,112	1,485	2,055
Salaries of all other employees.....do....	4,408	1,962	548	617	470	425	3,342	821	628	674	127	608
Supplies and purchases for resale.....do....	9,260	3,743	1,413	1,224	1,446	728	9,963	2,645	1,727	1,105	1,091	1,787
Sand and gravel received for preparation.....do....	120											
Purchased fuel.....do....	3,296	761	456	463	581	448	2,544	512	329	326	305	531
Purchased electricity.....do....	1,349	333	333	229	193	200	1,376	233	247	227	159	250
Contract work.....do....	2,528	976	199	434	527	196	1,654	662	247	16	57	523
Purchased machinery installed....do....	4,146	654	836	812	408	742	4,764	1,728	628	716	232	527
Capital expenditures, total.....do....	7,039	1,865	1,309	896	822	846	5,751	2,000	736	427	362	763
Development and exploration of mineral property.....do....	602	531	7	20	3	25	94	5	5	12	34	32
Preparation plant and other construction and machinery and equipment.....do....	6,437	1,334	1,302	876	819	821	5,657	1,995	731	415	328	731
Energy used....million kwh equivalent..	1,018	229	151	188	164	88	913	164	131	219	96	161
Coal.....1,000 short tons..	4	( <sup>2</sup> )	1	2	1	...	29	4	5	19	( <sup>2</sup> )	...
Fuel oil.....1,000 barrels..	108	23	16	24	5	9	130	27	9	23	19	29
Gas.....million cu. ft.	274	24	13	168	4	65	27	1	...	...	15	11
Other fuels.....\$1,000..	1,104	180	172	126	260	161	656	142	137	11	71	166
Undistributed.....do....	1,478	465	188	154	285	220	856	166	96	53	127	211
Electric energy purchased.....million kwh..	73	22	22	10	10	8	82	9	20	18	9	13
Electric energy generated and used.....do....	1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	...	( <sup>2</sup> )	3	( <sup>2</sup> )	...	2	...	( <sup>2</sup> )

See footnotes at end of table.



Table 3A.—Detailed Statistics for the Sand and Gravel Industry, by Divisions  
and Selected States: 1958—Continued

Item	East South Central			West South Central			Mountain			Pacific			
	Divi- sion	Ten- nessee	Mis- sis- sippi	Divi- sion	Louis- iana	Texas	Divi- sion	Colo- rado	Utah	Divi- sion, total	Wash- ington	Oregon	Cali- fornia
Number of establishments, total.....	155	45	45	354	77	191	227	55	26	381	61	70	250
With 0-19 employees.....	120	35	35	280	53	151	212	52	24	306	52	65	189
With 20-99 employees.....	35	10	10	72	24	38	14	3	1	71	9	5	57
With 100 employees and over.....	...	...	...	2	...	2	1	...	1	4	...	...	4
Net shipments of sand and gravel <sup>1</sup> .....1,000 short tons..	20,664	5,878	6,915	45,927	13,283	25,874	47,205	7,258	25,306	70,967	8,264	4,903	57,800
Value of shipments and receipts, total.....\$1,000..	22,812	6,937	8,033	57,877	16,891	32,536	35,219	7,340	12,538	94,297	7,667	7,864	78,766
Sand and gravel transferred to other establishments for preparation and resales.....do....	143	41	67	791	409	355	480	384	...	1,334	4	154	1,176
Net shipments and receipts.....do....	22,669	6,896	7,966	57,086	16,482	32,181	34,739	6,956	12,538	92,963	7,663	7,710	77,590
Value added in mining.....do....	17,848	5,204	5,942	43,376	11,684	25,569	30,507	5,639	12,030	73,058	5,942	5,059	62,057
Number of persons engaged, total.....	2,139	633	712	4,724	1,274	2,652	2,063	498	404	5,034	487	610	3,937
Production and development workers, average for year.....	1,733	539	567	3,849	1,043	2,197	1,584	358	326	3,735	360	437	2,938
Other employees.....	297	72	99	565	180	272	285	99	53	992	67	95	830
Proprietors and firm members.....	109	22	46	310	51	183	194	41	25	307	60	78	169
Performing manual labor.....	47	8	23	150	26	92	97	23	10	154	31	43	80
Man-hours worked by production and development workers, total.....1,000..	4,347	1,561	1,302	9,229	2,592	5,391	3,276	798	710	8,016	667	862	6,487
At mining operations, total....do....	2,832	593	1,166	5,043	1,920	2,393	2,113	326	646	3,471	330	545	2,596
Underground.....do....	2	...	2	2	...	...	7	...	...	23	...	4	19
Open-pit or bank.....do....	1,596	494	763	4,060	1,267	2,255	2,059	292	646	3,145	330	334	2,481
On floating equipment.....do....	1,234	99	401	981	653	138	47	34	...	303	...	207	96
At preparation plants.....do....	1,515	968	136	4,186	672	2,998	1,163	472	64	4,545	337	317	3,891
Man-hours spent on development and exploration work (included above).....do....	27	10	9	29	12	17	13	7	...	129	16	...	113
Principal expenses designated below, total.....\$1,000..	14,269	4,407	4,880	33,559	10,259	18,322	16,392	4,133	3,917	50,950	4,194	5,799	40,957
Wages of production and development workers.....do....	6,154	1,954	1,866	14,134	3,824	8,253	7,566	1,790	1,955	20,431	1,789	2,221	16,421
Salaries of all other employees.....do....	1,589	454	427	2,856	824	1,508	1,605	512	353	6,076	359	539	5,178
Supplies and purchases for resale.....do....	3,853	923	1,793	10,811	3,520	5,673	4,592	1,232	1,038	17,232	1,509	2,302	13,522
Sand and gravel received for preparation.....do....	1,411	480	477	2,862	861	1,596	1,796	339	509	2,743	297	339	2,107
Purchased fuel.....do....	442	158	119	1,880	822	779	363	138	13	2,201	117	106	1,978
Purchased electricity.....do....	820	438	198	1,016	408	513	470	122	49	2,166	123	292	1,751
Contract work.....do....	2,067	742	618	4,531	1,373	2,533	1,218	238	163	4,955	588	850	3,517
Purchased machinery installed....do....	3,629	1,008	1,114	6,599	1,777	4,127	3,727	368	1,264	8,159	909	1,084	6,166
Capital expenditures, total.....do....	56	17	14	89	24	63	70	20	1	449	32	1	416
Development and exploration of mineral property.....do....	3,573	991	1,100	6,510	1,753	4,064	3,657	348	1,263	7,710	877	1,083	5,750
Preparation plant and other construction and machinery and equipment.....do....	521	203	135	909	280	505	483	91	127	915	98	91	726
Energy used....million kwh equivalent..	7	3	1	1	...	...	( <sup>2</sup> )	...	...	2	2	...	...
Coal.....1,000 short tons..	85	33	13	86	40	36	47	5	8	96	13	4	79
Fuel oil.....1,000 barrels..	232	155	2	139	4	113	67	...	...	203	...	...	203
Gas.....million cu. ft.	324	95	74	1,256	181	953	681	131	400	1,211	74	176	961
Other fuels.....\$1,000..	536	155	309	1,057	438	447	775	175	48	914	130	137	647
Undistributed.....do....	36	13	9	133	48	59	18	5	1	142	10	6	126
Electric energy pur- chased.....million kwh..	1	( <sup>2</sup> )	...	1	...	1	( <sup>2</sup> )	...	( <sup>2</sup> )	3	1	1	1
Electric energy generated and used.....do....	1	( <sup>2</sup> )	...	1	...	1	( <sup>2</sup> )	...	( <sup>2</sup> )	3	1	1	1

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Net shipments represent gross shipments less sand and gravel received for preparation.<sup>2</sup>Less than one-half of the unit of measure specified.

Table 3B.—Detailed Statistics for Subindustries, by Selected Types of Operation: 1958

(For explanation of line captions see Introduction)

Item	144— Sand and gravel industry	Common sand and gravel subindustry							
		All estab- lish- ments, total	Producing establishments						
			Total	Mining only	Mining with preparation		Bank and wet pit	Bank and dry pit	Bank and river, lake, or ocean
					Including crushing	Screening and other methods only			
Number of establishments, total.....	3,703	3,534	3,511	174	272	117	299	233	54
With 0-19 employees.....	3,221	3,087	3,064	168	238	106	221	201	43
With 20-99 employees.....	456	425	425	6	31	11	71	31	11
With 100 employees and over.....	26	22	22	...	3	...	7	1	...
Including mines.....	3,690	3,524	3,501	174	272	117	299	233	54
Including preparation plants.....	2,758	2,618	2,612	...	272	117	287	214	50
Net shipments of primary products <sup>1</sup> ..1,000 short tons..	481,251	465,278	465,278	10,978	39,145	8,932	64,419	38,565	7,377
Value of shipments and receipts, total.....\$1,000..	560,806	516,090	516,090	12,248	42,355	10,723	78,809	39,234	10,000
Sand and gravel transferred to other establishments for preparation and resales.....do.....	8,600	7,834	7,834	65	748	519	1,176	583	196
Net shipments and receipts.....do.....	552,206	508,256	508,256	12,183	41,607	10,204	77,633	38,651	9,804
Value added in mining.....do.....	434,468	401,700	401,640	10,018	33,979	8,057	60,661	30,819	7,976
Number of persons engaged, total.....	40,005	237,033	236,988	811	3,207	899	5,513	2,594	757
Production and development workers, average for year.....do.....	30,630	28,268	28,240	546	2,419	659	4,531	2,068	574
March.....do.....	26,569	24,303	24,282	506	1,899	570	4,047	1,694	513
May.....do.....	31,429	29,054	29,027	588	2,592	666	4,645	2,171	598
August.....do.....	33,094	30,709	30,672	606	2,802	755	4,868	2,346	618
November.....do.....	31,406	29,001	28,971	542	2,484	669	4,676	2,169	579
Other employees.....do.....	6,418	25,896	25,888	99	614	151	774	369	143
Proprietors and firm members.....do.....	2,957	2,869	2,860	166	174	89	208	157	40
Performing manual labor.....do.....	1,592	1,536	1,535	120	116	56	109	98	16
Man-hours worked by production and develop- ment workers, total.....1,000..	66,480	61,733	61,679	1,007	4,919	1,364	10,490	4,392	1,493
At mining operations, total.....do.....	35,562	33,782	33,728	1,007	2,549	886	4,725	2,392	798
Underground.....do.....	129	129	129	9	7	...	3	...	...
Open-pit or bank.....do.....	28,701	26,968	26,937	998	2,542	886	4,272	2,392	638
On floating equipment.....do.....	6,732	6,685	6,662	...	...	...	450	...	160
At preparation plants.....do.....	30,918	27,951	27,951	...	2,370	478	5,765	2,000	695
Man-hours spent on development and exploration work (included above).....do.....	835	825	825	28	35	9	52	74	17
Principal expenses designated below, total.....\$1,000..	316,757	2291,415	2291,168	5,590	25,019	6,654	42,769	20,815	6,057
Wages of production and development workers.....do.....	134,441	124,802	124,690	2,111	11,642	2,991	19,526	9,850	2,494
Salaries of all other employees.....do.....	37,885	234,582	234,542	512	3,895	740	4,837	2,168	872
Supplies and purchases for resale <sup>3</sup> .....do.....	88,753	81,010	80,964	1,699	5,771	2,034	11,287	5,829	1,745
Sand and gravel received for preparation.....do.....	870	793	793	...	...	...	...	74	25
Purchased fuel.....do.....	25,342	23,085	23,065	706	1,676	507	2,854	1,475	456
Purchased electricity.....do.....	14,099	12,471	12,463	209	827	198	2,742	858	149
Contract work.....do.....	15,367	14,672	14,651	353	1,208	184	1,523	561	316
Purchased machinery installed.....do.....	38,469	35,177	35,177	931	3,307	643	8,064	3,192	716
Capital expenditures, total.....do.....	56,562	52,818	52,663	1,668	4,413	900	8,322	3,574	1,383
Development and exploration of mineral property.....do.....	1,842	1,808	1,793	5	129	49	132	267	69
Preparation plant and other construction.....do.....	14,894	13,569	13,529	179	1,095	289	1,356	816	192
New machinery and equipment.....do.....	28,975	26,634	26,534	1,108	2,536	433	4,000	1,912	890
Used plant and equipment.....do.....	10,851	10,807	10,807	376	653	129	2,834	579	232
Energy used.....million kwh equivalent..	8,596	7,249	7,244	198	489	158	1,018	442	192
Coal.....do.....1,000 short tons..	107	34	34	...	1	1	( <sup>4</sup> )	1	2
Fuel oil.....do.....1,000 barrels..	1,050	910	910	(D)	61	17	218	49	(D)
Gas.....do.....million cu. ft..	1,642	760	760	(D)	29	15	111	44	(D)
Other fuels.....do.....\$1,000..	8,117	7,750	7,748	127	753	233	1,273	776	120
Undistributed.....do.....	10,340	10,059	10,041	537	556	172	439	386	40
Electric energy purchased.....million kwh..	862	746	746	14	41	15	184	46	6
Electric energy generated and used.....do.....	32	16	16	...	2	1	1	( <sup>4</sup> )	...

See footnotes at end of table.



Table 3B.—Detailed Statistics for Subindustries, by Selected Types of Operation: 1958—Continued

Item	Common sand and gravel subindustry—Continued									
	Producing establishments—Continued									
	Wet pit		Wet pit and dry pit	Wet pit and river, lake, or ocean	Dry pit			Dry pit and river, lake, or ocean	River	
	Mining with preparation, including crushing	Other types			Mining only	Mining with preparation			Mining with preparation, including crushing	Other types
						Including crushing	Screening and other methods only			
Number of establishments, total.....	151	270	54	43	335	455	272	19	72	170
With 0-19 employees.....	130	256	45	38	322	362	246	15	48	153
With 20-99 employees.....	21	14	7	4	11	90	24	4	23	17
With 100 employees and over.....	...	...	2	1	2	3	2	...	1	...
Including mines.....	151	270	54	43	335	455	272	19	72	170
Including preparation plants.....	151	243	51	42	...	455	272	19	72	139
Net shipments of primary products <sup>1</sup> ..1,000 short tons..	19,356	22,297	9,868	5,750	42,790	85,186	26,782	2,612	14,738	16,713
Value of shipments and receipts, total.....\$1,000..	22,552	19,983	11,802	7,130	29,677	103,977	34,480	3,525	20,552	15,092
Sand and gravel transferred to other establishments for preparation and resales.....do....	187	110	194	176	28	1,444	1,046	102	317	238
Net shipments and receipts.....do....	22,365	19,873	11,608	6,954	29,649	102,533	33,434	3,423	20,235	14,854
Value added in mining.....do....	18,242	14,790	9,385	3,800	27,571	80,578	25,435	2,355	14,613	12,112
Number of persons engaged, total.....	1,688	1,796	864	505	2,026	6,302	2,316	295	1,431	1,480
Production and development workers, average for year.....	1,369	1,371	677	344	1,560	4,959	1,805	226	1,161	1,142
March.....	1,181	1,147	566	283	1,385	4,235	1,665	218	1,131	1,094
May.....	1,407	1,422	686	361	1,564	5,090	1,824	227	1,221	1,177
August.....	1,527	1,540	768	388	1,611	5,500	1,913	248	1,146	1,198
November.....	1,400	1,499	716	372	1,586	5,104	1,731	229	1,133	1,141
Other employees.....	213	174	135	115	159	1,030	284	47	227	193
Proprietors and firm members.....	106	251	52	46	307	313	227	22	43	145
Performing manual labor.....	63	181	40	35	143	162	134	15	28	94
Man-hours worked by production and development workers, total.....1,000..	3,245	2,978	1,590	757	3,306	10,340	4,254	555	2,547	2,616
At mining operations, total.....do....	1,475	2,008	596	317	3,306	3,880	2,370	405	1,347	1,634
Underground.....do....	...	...	12	...	...	37	...	...	...	...
Open-pit or bank.....do....	975	1,598	524	170	3,306	3,843	2,370	225	38	460
On floating equipment.....do....	500	410	60	147	...	...	...	180	1,309	1,174
At preparation plants.....do....	1,770	970	994	440	...	6,460	1,884	150	1,200	982
Man-hours spent on development and exploration work (included above).....do....	49	15	22	...	17	33	35	3	173	38
Principal expenses designated below, total....\$1,000..	13,018	11,896	6,198	4,480	14,225	56,480	19,090	2,474	13,363	9,169
Wages of production and development workers.....do....	6,157	5,384	2,609	1,609	6,685	23,884	7,422	907	5,545	4,681
Salaries of all other employees.....do....	1,224	734	599	551	595	6,064	1,479	267	1,818	1,120
Supplies and purchases for resale <sup>3</sup> .....do....	3,357	3,337	1,802	1,765	3,074	17,049	6,063	754	4,412	2,032
Sand and gravel received for preparation.....do....	...	...	...	...	...	230	94	...	...	...
Purchased fuel.....do....	1,011	1,178	670	222	2,177	3,707	1,417	330	955	771
Purchased electricity.....do....	782	610	197	171	688	1,949	814	57	229	234
Contract work.....do....	487	653	321	162	1,006	3,597	1,801	159	404	331
Purchased machinery installed.....do....	1,185	1,225	579	1,292	1,565	6,569	985	323	1,368	1,110
Capital expenditures, total.....do....	2,512	1,810	1,152	282	6,404	9,702	2,129	453	1,429	1,498
Development and exploration of mineral property.....do....	186	28	46	1	526	128	98	1	11	17
Preparation plant and other construction.....do....	820	546	99	115	1,116	3,031	1,046	65	444	270
New machinery and equipment.....do....	1,331	969	878	116	3,537	5,330	710	332	867	871
Used plant and equipment.....do....	175	267	129	50	1,225	1,213	275	55	107	340
Energy used.....million kwh equivalent..	307	358	184	73	589	1,147	462	100	401	277
Coal.....1,000 short tons..	( <sup>4</sup> )	1	...	...	...	5	3	...	13	7
Fuel oil.....1,000 barrels..	33	39	12	3	18	193	52	6	81	55
Gas.....million cu. ft..	...	51	...	29	...	45	64	55	131	28
Other fuels.....\$1,000..	358	366	469	28	516	1,574	540	83	255	183
Undistributed.....do....	464	575	134	172	1,563	1,007	584	198	175	249
Electric energy purchased.....million kwh..	45	32	13	9	39	120	49	3	15	12
Electric energy generated and used.....do....	1	( <sup>4</sup> )	( <sup>4</sup> )	...	...	2	( <sup>4</sup> )	...	7	( <sup>4</sup> )

See footnotes at end of table.

Table 3B.—Detailed Statistics for Subindustries, by Selected Types of Operation: 1958—Continued

Item	Common sand and gravel subindustry—Continued			Glass sand subindustry				Molding sand subindustry			
	Producing establishments—Continued		Nonproducing establishments	All establishments, total	Producing wet pit	Producing dry pit	Bank and other types	All establishments, total	Bank	Bank and pit and wet pit	Dry pit
	Other specified types	Unspecified types									
Number of establishments, total.....	48	473	23	45	6	23	16	124	47	27	50
With 0-19 employees.....	43	429	23	26	4	12	10	108	42	22	44
With 20-99 employees.....	5	44	...	16	1	9	6	15	5	4	6
With 100 employees and over.....	...	...	...	3	1	2	...	1	...	1	...
Including mines.....	38	473	23	42	6	23	13	124	47	27	50
Including preparation plants.....	42	186	6	39	6	19	14	101	38	21	42
Net shipments of primary products <sup>1</sup> , 1,000 short tons..	7,385	42,385	...	6,311	1,206	3,585	1,520	6,034	1,928	1,769	2,337
Value of shipments and receipts, total.....\$1,000..	6,347	47,604	...	28,343	6,572	15,714	6,057	16,373	4,967	5,032	6,374
Sand and gravel transferred to other establishments for preparation and resales.....do....	385	320	...	28,343	316 6,256	15,714	6,057	16,373	4,967	5,032	79 6,295
Net shipments and receipts.....do....	5,962	47,284	...								
Value added in mining.....do....	4,919	36,330	60	20,672	5,159	11,584	3,929	12,096	3,400	4,187	4,509
Number of persons engaged, total.....	430	3,444	45	1,642	345	995	302	<sup>2</sup> 1,330	394	374	497
Production and development workers, average for year.....	334	2,495	28	1,339	274	817	248	1,023	307	316	400
March.....	263	1,925	21	1,327	284	812	231	939	297	262	380
May.....	332	2,496	27	1,346	283	816	247	1,029	308	308	413
August.....	385	2,493	37	1,329	255	815	259	1,056	315	324	417
November.....	373	2,508	30	1,352	279	817	256	1,053	318	331	404
Other employees.....	71	460	8	289	67	175	47	<sup>2</sup> 233	56	45	67
Proprietors and firm members.....	25	489	9	14	4	3	7	74	31	13	30
Performing manual labor.....	10	115	1	8	4	1	3	48	24	10	14
Man-hours worked by production and development workers, total.....1,000..	888	4,938	54	2,833	620	1,643	570	1,914	661	517	736
At mining operations, total.....do....	622	3,411	54	784	142	542	100	996	422	229	345
Underground.....do....	...	61	...	...	...	...	...	...	...	...	...
Open-pit or bank.....do....	...	1,700	31	769	142	542	85	964	422	203	339
On floating equipment.....do....	622	1,650	23	15	...	...	15	32	...	26	6
At preparation plants.....do....	266	1,527	...	2,049	478	1,101	470	918	239	288	391
Man-hours spent on development and exploration work (included above).....do....	18	207	...	5	...	1	4	5	2	2	1
Principal expenses designated below, total.....\$1,000..	3,453	25,777	247	15,511	3,901	8,251	3,359	<sup>2</sup> 9,831	3,087	2,490	3,692
Wages of production and development workers.....do....	1,590	9,603	112	5,730	1,251	3,498	981	3,909	1,223	1,071	1,615
Salaries of all other employees.....do....	412	2,014	40	1,767	524	941	302	<sup>2</sup> 1,536	228	341	405
Supplies and purchases for resale <sup>3</sup> .....do....	394	8,672	46	5,520	1,582	2,391	1,547	2,300	997	592	711
Sand and gravel received for preparation.....do....	258	...	...								
Purchased fuel.....do....	252	2,701	20	1,265	356	628	281	992	325	220	447
Purchased electricity.....do....	156	1,593	8	1,084	84	762	238	544	126	188	230
Contract work.....do....	391	1,194	21	145	104	31	10	550	188	78	284
Purchased machinery installed.....do....	378	1,745	...	2,360	383	1,017	960	932	215	83	634
Capital expenditures, total.....do....	401	4,631	155	2,703	1,096	699	908	1,041	284	316	441
Development and exploration of mineral property.....do....	7	93	15	19	1	17	1	15	5	...	10
Preparation plant and other construction.....do....	103	1,947	40	1,012	592	170	250	313	50	152	111
New machinery and equipment.....do....	228	486	100	1,656	502	509	645	685	228	156	301
Used plant and equipment.....do....	63	2,105	...	16	1	3	12	28	1	8	19
Energy used.....million kwh equivalent..	77	772	5	966	385	428	153	381	116	80	185
Coal.....1,000 short tons..	...	...	...	73	(D)	21	(D)	( <sup>4</sup> )	( <sup>4</sup> )	...	...
Fuel oil.....1,000 barrels..	11	3	...	36	(D)	25	(D)	104	24	20	60
Gas.....million cu. ft..	...	...	...	596	...	417	179	286	98	48	140
Other fuels.....\$1,000..	94	...	2	162	30	78	54	205	101	56	48
Undistributed.....do....	102	2,688	18	146	7	74	65	135	46	33	56
Electric energy purchased.....million kwh..	8	95	( <sup>4</sup> )	86	8	59	19	30	8	9	13
Electric energy generated and used.....do....	...	2	...	(D)	(D)	(D)	...	(D)	...	(D)	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Represents the product indicated by the name of the industry or subindustry. Net shipments represent gross shipments less sand and gravel received for preparation.<sup>2</sup>Includes figures for separately reported central offices and related facilities. These were not distributed by detailed type of operation.<sup>3</sup>Includes purchases for resale amounting to the following: for the Common Sand and Gravel Subindustry, \$5,588 thousand; for the Glass Sand Subindustry, \$319 thousand; and for the Molding Sand Subindustry, \$230 thousand.<sup>4</sup>Less than one-half of the unit of measure specified.



Table 4.—Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry or subindustry and item	All establish- ments, total	Establishments with an average of—						
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	
1441	SAND AND GRAVEL:								
	Number of establishments.....	3,703	1,842	776	603	395	61	25	1
	All employees:								
	Number.....	37,048	3,282	5,297	8,304	11,976	4,278	<u>3,911</u>	(D)
	Payroll.....\$1,000..	172,326	12,840	23,338	38,521	57,161	20,326	<u>20,140</u>	(D)
	Production and development workers:								
	Number.....	30,630	3,055	4,359	6,764	9,816	3,518	<u>3,118</u>	(D)
	Man-hours.....1,000..	66,480	6,438	8,935	14,538	21,827	8,097	<u>6,645</u>	(D)
	Wages.....\$1,000..	134,441	11,771	18,901	29,916	43,943	15,219	<u>14,691</u>	(D)
	Value added in mining.....do...	434,468	56,563	57,085	94,473	124,880	48,227	<u>53,240</u>	(D)
	Value of shipments and receipts.....do...	560,806	53,277	73,038	120,988	182,459	62,804	<u>68,240</u>	(D)
	Capital expenditures.....do...	56,562	8,951	7,366	14,463	16,227	3,817	<u>5,738</u>	(D)
	Common sand and gravel subindustry:								
	Number of establishments.....	3,534	1,765	744	578	369	56	22	...
	All employees:								
	Number.....	34,164	3,138	5,020	7,944	11,092	3,944	3,026	...
	Payroll.....\$1,000..	159,384	12,307	21,800	37,011	53,195	18,997	16,074	...
	Production and development workers:								
	Number.....	28,268	2,920	4,185	6,484	9,046	3,212	2,421	...
	Man-hours.....1,000..	61,733	6,204	8,581	13,966	20,153	7,488	5,341	...
	Wages.....\$1,000..	124,802	11,288	18,196	28,745	40,658	14,045	11,870	...
	Value added in mining.....do...	401,700	54,663	55,042	89,680	114,635	45,704	41,976	...
	Value of shipments and receipts.....do...	516,090	51,025	70,336	114,825	167,581	58,554	53,769	...
	Capital expenditures.....do...	52,818	8,215	7,214	13,990	14,982	3,541	4,876	...
	Number of producing establishments, by type of operation, total.....	3,511	1,744	742	578	369	56	22	...
	Bank:								
	Mining only.....	174	139	18	11	5	1	...	...
	Mining with preparation:								
	Including crushing.....	272	86	90	62	29	2	3	...
	Screening and other methods only.....	117	62	33	11	9	2	...	...
	Bank and wet pit.....	299	78	69	74	56	15	7	...
	Bank and dry pit.....	233	87	64	50	30	1	1	...
	Bank and river.....	38	12	6	12	7	1	...	...
	Bank and lake or ocean.....	16	3	3	7	3	...	...	...
	Wet pit:								
	Mining only.....	27	22	3	1	1	...	...	...
	Mining with preparation:								
	Including crushing.....	151	55	38	37	18	3	...	...
	Including screening but no crushing.....	194	105	51	28	10	...	...	...
	Washing and other methods only.....	49	31	12	3	3	...	...	...
	Wet pit and dry pit.....	54	18	14	13	7	2	...	...
	Wet pit and river.....	18	8	6	2	2	...	...	...
	Wet pit and lake or ocean.....	25	14	5	3	2	...	1	...
	Dry pit:								
	Mining only.....	335	257	39	26	9	2	2	...
	Mining with preparation:								
	Including crushing.....	455	149	109	104	76	14	3	...
	Including screening but no crushing.....	219	130	39	25	20	3	2	...
	Including washing but no crushing or screening.....	40	28	4	7	1	...	...	...
	Other preparation methods only.....	13	7	2	4	...	...	...	...
	Dry pit and river, lake, or ocean.....	19	7	2	6	3	1	...	...
	River:								
	Mining only.....	31	20	6	3	2	...	...	...
	Mining with preparation:								
	Including crushing.....	72	24	16	8	17	6	1	...
	Including screening but no crushing.....	112	54	29	18	11	...	...	...
	Washing and other methods only.....	27	12	7	4	3	1	...	...
	River and lake or ocean:								
	Mining only.....	1	...	1	...	...	...	...	...
	Mining with preparation.....	3	1	2	...	...	...	...	...
	Lake or ocean:								
	Mining only.....	5	2	2	1	...	...	...	...
	Mining with preparation:								
	Including crushing.....	4	...	...	1	3	...	...	...
	Screening and other methods only.....	25	12	6	5	2	...	...	...
	Preparation plants only.....	10	4	3	3	...	...	...	...
	Unspecified types.....	473	317	63	49	40	2	2	...

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 4.-Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958-Continued

Ind. code	Industry or subindustry and item	All establish- ments, total	Establishments with an average of—						
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees
	<u>Glass sand subindustry:</u>								
	Number of establishments.....	45	10	5	11	13	3	2	1
	All employees:								
	Number.....	1,628	19	36	173	468	<u>932</u>	(D)	(D)
	Payroll.....\$1,000..	7,497	80	223	777	2,154	<u>4,263</u>	(D)	(D)
	Production and development workers:								
	Number.....	1,339	17	30	132	406	<u>754</u>	(D)	(D)
	Man-hours.....1,000..	2,833	39	63	268	939	<u>1,524</u>	(D)	(D)
	Wages.....\$1,000..	5,730	71	118	603	1,772	<u>3,166</u>	(D)	(D)
	Value added in mining.....do...	20,672	375	610	2,505	5,979	<u>11,203</u>	(D)	(D)
	Value of shipments and receipts.....do...	28,343	249	845	3,356	8,898	<u>14,995</u>	(D)	(D)
	Capital expenditures.....do...	2,703	618	7	343	820	<u>915</u>	(D)	(D)
	Number of producing establishments, by type of operation, total.....	44	9	5	11	13	3	2	1
	Bank (mining with preparation).....	7	2	1	1	3	...	...	...
	Bank and other methods.....	2	...	...	1	1	...	...	...
	Wet pit (mining with preparation).....	6	2	...	2	...	1	1	...
	Dry pit:								
	Mining only.....	4	4	...	...	...	...	...	...
	Mining with preparation.....	19	...	2	6	7	2	1	1
	River (mining with preparation).....	1	...	1	...	...	...	...	...
	Lake or ocean.....	2	...	...	1	1	...	...	...
	Preparation plants only.....	3	1	1	...	1	...	...	...
	<u>Molding sand subindustry:</u>								
	Number of establishments.....	124	67	27	14	13	2	1	...
	All employees:								
	Number.....	1,256	125	241	187	416	<u>287</u>	(D)	...
	Payroll.....\$1,000..	5,445	453	1,315	733	1,812	<u>1,132</u>	(D)	...
	Production and development workers:								
	Number.....	1,023	118	144	148	364	<u>249</u>	(D)	...
	Man-hours.....1,000..	1,914	195	291	304	735	<u>389</u>	(D)	...
	Wages.....\$1,000..	3,909	412	587	568	1,513	<u>829</u>	(D)	...
	Value added in mining.....do...	12,096	1,525	1,433	2,288	4,266	<u>2,584</u>	(D)	...
	Value of shipments and receipts.....do...	16,373	2,003	1,857	2,807	5,980	<u>3,726</u>	(D)	...
	Capital expenditures.....do...	1,041	118	145	130	425	<u>223</u>	(D)	...
	Number of producing establishments by type of operation, total.....	124	67	27	14	13	2	1	...
	Bank:								
	Mining only.....	9	8	1	...	...	...	...	...
	Mining with preparation.....	38	18	10	5	4	1	...	...
	Bank and pit.....	9	4	2	1	1	...	1	...
	Wet pit:								
	Mining only.....	4	2	2	...	...	...	...	...
	Mining with preparation.....	13	7	2	1	3	...	...	...
	Dry pit:								
	Mining only.....	8	8	...	...	...	...	...	...
	Mining with preparation.....	42	20	9	7	5	1	...	...
	River (mining with preparation).....	1	...	1	...	...	...	...	...



Table 5.—Industry-Product Analysis, Summary of Industry Shipments and Receipts and Net Shipments of Primary Products for the United States: 1958 and 1954

Ind. code	Industry or subindustry and year	Value of shipments and receipts of establishments classified in the industry					Value of net shipments of primary products		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total (produced in all industries)	Produced in this industry or sub-industry	Produced in other industries or sub-industries
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1441	Sand and gravel industry.....1958..	560,806	519,327	29,154	4,595	7,730	<sup>1</sup> 591,188	518,457	<sup>1</sup> 72,731
	.....1954..	466,015	408,546	38,949	7,969	10,551	<sup>2</sup> 445,075	<sup>2</sup> 417,627	<sup>2</sup> 27,448
	Common sand and gravel subindustry.....1958..	516,090	474,510	29,944	4,595	7,041	<sup>1</sup> 550,289	473,717	<sup>1</sup> 76,572
	.....1954..	435,662	(NA)	(NA)	(NA)	(NA)	<sup>2</sup> 412,970	(NA)	(NA)
	Glass sand subindustry.....1958..	28,343	19,442	8,568	...	333	<sup>3</sup> 21,955	<sup>3</sup> 19,442	2,513
	.....1954..	18,591	(NA)	(NA)	(NA)	(NA)	<sup>2</sup> 16,696	(NA)	(NA)
	Molding sand subindustry.....1958..	16,373	14,319	1,698	...	356	<sup>3</sup> 19,021	<sup>3</sup> 14,319	4,702
	.....1954..	11,762	(NA)	(NA)	(NA)	(NA)	<sup>2</sup> 15,409	(NA)	(NA)

NA Not available.

<sup>1</sup>Represents the value of net shipments plus the approximate value of sand and gravel produced and used in the same establishment in the manufacture of concrete brick and block, ready-mixed concrete, and asphalt and tar paving mixtures.<sup>2</sup>Represents the value of gross shipments plus the approximate value of sand and gravel produced and used in the same establishment in the manufacture of concrete brick and block, ready-mixed concrete, and asphalt and tar paving mixtures.<sup>3</sup>Represents gross shipments.

Table 6A.—Primary Products of the Sand and Gravel Industry Produced in All Industries,  
by Divisions and States: 1958 and 1954

(Excludes sand and gravel produced by Federal, State, and local Government operations)

Product, division, and State	1958			1954		
	Total production  (1,000 short tons)	Total shipments (including interplant transfers) or receipts		Total production <sup>1</sup>  (1,000 short tons)	Total shipments (including interplant transfers) <sup>2</sup> or receipts	
		Quantity (1,000 short tons)	Value (\$1,000)		Quantity (1,000 short tons)	Value (\$1,000)
SAND AND GRAVEL						
United States:						
Sand and gravel production and shipments, total.....	552,733	526,020	567,971	428,599	412,335	425,500
Common sand, total.....	232,708	219,407	219,246	174,738	167,393	160,678
Run of pit or bank.....	44,586	44,507	36,143	14,675	(NA)	<sup>3</sup> 8,572
Washed, screened, ground, or otherwise prepared.....	188,122	174,900	183,103	160,063	(NA)	<sup>3</sup> 159,498
Glass sand, total.....	7,446	7,421	21,955	5,955	5,974	16,720
Run of pit or bank.....	361	357	612	136	(NA)	<sup>3</sup> 157
Washed, screened, ground, or otherwise prepared.....	7,085	7,064	21,343	5,819	(NA)	<sup>3</sup> 16,539
Molding sand, total.....	7,763	7,709	19,021	7,534	7,531	15,410
Run of pit or bank.....	1,251	1,244	1,921	1,302	(NA)	<sup>3</sup> 1,450
Washed, screened, ground, or otherwise prepared.....	6,512	6,465	17,100	6,232	(NA)	<sup>3</sup> 13,959
Gravel, total.....	304,816	291,483	307,749	240,372	231,437	232,692
Run of pit or bank.....	72,427	72,675	51,950	30,149	(NA)	<sup>3</sup> 17,344
Washed, screened, or otherwise prepared.....	232,389	218,808	255,799	210,223	(NA)	<sup>3</sup> 227,556
Sand and gravel received for preparation in the sand and gravel industry.....	xxx	2,172	870	xxx	(NA)	(NA)
New England:						
Sand and gravel production and shipments, total.....	21,953	19,747	21,269	(NA)	13,398	13,055
Common sand, total.....	9,635	8,802	8,299	(NA)	(NA)	(NA)
Run of pit or bank.....	1,772	1,780	1,191	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	7,863	7,022	7,108	(NA)	(NA)	(NA)
Glass sand and molding sand.....	168	156	434	(NA)	(NA)	(NA)
Gravel, total.....	12,150	10,789	12,536	(NA)	(NA)	(NA)
Run of pit or bank.....	3,384	3,375	2,554	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	8,766	7,414	9,982	(NA)	(NA)	(NA)
Sand and gravel production and shipments, by State:						
Maine.....	1,464	1,311	1,199	800	798	575
New Hampshire.....	1,133	1,080	1,249	808	808	926
Vermont.....	853	795	867	611	611	767
Massachusetts.....	11,308	9,775	10,250	(NA)	6,738	6,117
Rhode Island.....	1,378	1,263	1,316	(NA)	798	766
Connecticut.....	5,817	5,523	6,388	3,702	3,645	3,904
Middle Atlantic:						
Sand and gravel production and shipments, total.....	52,868	50,883	68,687	50,077	49,476	62,188
Common sand, total.....	27,848	26,840	30,675	(NA)	(NA)	(NA)
Run of pit or bank.....	3,798	3,796	3,523	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	24,050	23,044	27,152	(NA)	(NA)	(NA)
Glass sand.....	1,577	1,578	4,732	(NA)	(NA)	(NA)
Molding sand.....	2,422	2,389	7,187	(NA)	(NA)	(NA)
Gravel, total.....	21,021	20,076	26,093	(NA)	(NA)	(NA)
Run of pit or bank.....	4,267	4,301	3,018	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	16,754	15,775	23,075	(NA)	(NA)	(NA)
Sand and gravel production and shipments, by State:						
New York:						
Sand and gravel, total.....	27,822	27,114	31,657	26,024	25,751	26,437
Common sand, total.....	15,093	14,763	15,884	(NA)	(NA)	(NA)
Run of pit or bank.....	2,228	2,228	1,989	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	12,865	12,535	13,895	(NA)	(NA)	(NA)
Glass sand and molding sand.....	449	414	905	(NA)	(NA)	(NA)
Gravel, total.....	12,280	11,937	14,868	(NA)	(NA)	(NA)
Run of pit or bank.....	3,151	3,153	2,017	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	9,129	8,784	12,851	(NA)	(NA)	(NA)
New Jersey:						
Sand and gravel, total.....	12,168	11,683	18,127	9,688	9,677	14,369
Common sand, total.....	6,921	6,653	7,167	(NA)	(NA)	(NA)
Run of pit or bank.....	1,169	1,169	1,054	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	5,752	5,484	6,113	(NA)	(NA)	(NA)
Glass sand and molding sand.....	2,398	2,398	7,097	(NA)	(NA)	(NA)
Gravel.....	2,849	2,632	3,863	(NA)	(NA)	(NA)

See footnotes at end of table.



Table 6A.—Primary Products of the Sand and Gravel Industry Produced in All Industries.  
by Divisions and States: 1958 and 1954—Continued

Product, division, and State	1958			1954		
	Total production  (1,000 short tons)	Total shipments (including interplant transfers) or receipts		Total production <sup>1</sup>  (1,000 short tons)	Total shipments (including interplant transfers) <sup>2</sup> or receipts	
		Quantity (1,000 short tons)	Value (\$1,000)		Quantity (1,000 short tons)	Value (\$1,000)
SAND AND GRAVEL--Continued						
Middle Atlantic--Continued						
Sand and gravel production and shipments, by State--Continued						
Pennsylvania:						
Sand and gravel, total.....	12,878	12,086	18,903	14,365	14,048	21,382
Common sand.....	5,834	5,424	7,624	(NA)	(NA)	(NA)
Glass sand and molding sand.....	1,152	1,155	3,917	(NA)	(NA)	(NA)
Gravel.....	5,892	5,507	7,362	(NA)	(NA)	(NA)
East North Central:						
Sand and gravel production and shipments, total.....	141,906	138,035	146,387	101,697	101,207	97,633
Common sand, total.....	57,778	55,937	56,081	(NA)	(NA)	(NA)
Run of pit or bank.....	12,144	12,039	9,966	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	45,634	43,898	46,115	(NA)	(NA)	(NA)
Glass sand.....	1,798	1,797	5,189	(NA)	(NA)	(NA)
Molding sand.....	3,540	3,541	7,615	(NA)	(NA)	(NA)
Gravel, total.....	78,790	76,760	77,502	(NA)	(NA)	(NA)
Run of pit or bank.....	13,554	13,835	11,598	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	65,236	62,925	65,904	(NA)	(NA)	(NA)
Sand and gravel production and shipments, by State:						
Ohio:						
Sand and gravel, total.....	32,613	31,165	37,874	24,201	24,062	26,372
Common sand, total.....	13,668	13,119	13,886	(NA)	(NA)	(NA)
Run of pit or bank.....	2,557	2,558	2,315	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	11,111	10,561	11,571	(NA)	(NA)	(NA)
Glass sand and molding sand.....	977	994	3,668	(NA)	(NA)	(NA)
Gravel, total.....	17,968	17,052	20,320	(NA)	(NA)	(NA)
Run of pit or bank.....	3,082	3,216	2,787	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	14,886	13,836	17,533	(NA)	(NA)	(NA)
Indiana, sand and gravel.....	18,509	18,314	16,716	15,099	15,070	13,074
Illinois:						
Sand and gravel, total.....	36,627	36,193	41,050	22,256	22,094	24,505
Common sand, total.....	16,722	16,409	19,079	(NA)	(NA)	(NA)
Run of pit or bank.....	2,838	2,815	2,593	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	13,884	13,594	16,486	(NA)	(NA)	(NA)
Glass sand and molding sand.....	1,882	1,867	4,758	(NA)	(NA)	(NA)
Gravel, total.....	18,023	17,917	17,213	(NA)	(NA)	(NA)
Run of pit or bank.....	3,256	3,157	2,857	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	14,767	14,760	14,356	(NA)	(NA)	(NA)
Michigan:						
Sand and gravel, total.....	34,565	33,319	33,493	26,151	26,041	22,529
Common sand, total.....	12,964	12,490	11,103	(NA)	(NA)	(NA)
Run of pit or bank.....	3,800	3,773	2,689	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	9,164	8,717	8,414	(NA)	(NA)	(NA)
Glass sand and molding sand.....	1,429	1,428	2,441	(NA)	(NA)	(NA)
Gravel, total.....	20,172	19,401	19,949	(NA)	(NA)	(NA)
Run of pit or bank.....	2,423	2,385	2,328	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	17,749	17,016	17,621	(NA)	(NA)	(NA)
Wisconsin:						
Sand and gravel, total.....	19,592	19,044	17,254	13,990	13,940	11,153
Common sand, total.....	6,842	6,582	6,055	(NA)	(NA)	(NA)
Run of pit or bank.....	2,005	1,949	1,530	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	4,837	4,633	4,525	(NA)	(NA)	(NA)
Glass sand and molding sand.....	683	682	1,460	(NA)	(NA)	(NA)
Gravel, total.....	12,067	11,780	9,739	(NA)	(NA)	(NA)
Run of pit or bank.....	3,145	3,145	2,302	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	8,922	8,635	7,437	(NA)	(NA)	(NA)
West North Central:						
Sand and gravel production and shipments, total.....	62,615	59,604	55,384	(NA)	53,333	45,629
Common sand, total.....	24,000	22,749	19,929	(NA)	(NA)	(NA)
Run of pit or bank.....	4,870	4,815	4,056	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	19,130	17,934	15,873	(NA)	(NA)	(NA)

See footnotes at end of table.

Table 6A.—Primary Products of the Sand and Gravel Industry Produced in All Industries,  
by Divisions and States: 1958 and 1954—Continued

Product, division, and State	1958			1954		
	Total production  (1,000 short tons)	Total shipments (including interplant transfers) or receipts		Total production <sup>1</sup>  (1,000 short tons)	Total shipments (including interplant transfers) <sup>2</sup> or receipts	
		Quantity (1,000 short tons)	Value (\$1,000)		Quantity (1,000 short tons)	Value (\$1,000)
SAND AND GRAVEL--Continued						
West North Central--Continued						
Glass sand and molding sand.....	612	613	1,415	(NA)	(NA)	(NA)
Gravel, total.....	38,003	36,242	34,040	(NA)	(NA)	(NA)
Run of pit or bank.....	8,969	8,736	7,807	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	29,034	27,506	26,233	(NA)	(NA)	(NA)
Sand and gravel production and shipments, by State:						
Minnesota.....	17,486	16,270	16,406	(NA)	12,155	10,275
Iowa.....	10,608	10,109	10,317	(NA)	8,866	7,887
Missouri.....	7,853	7,865	8,493	(NA)	8,003	8,213
North Dakota and South Dakota.....	7,247	6,880	5,140	(NA)	8,447	6,484
Nebraska.....	10,195	10,070	8,092	7,809	7,819	6,583
Kansas.....	9,226	8,410	6,936	(NA)	8,043	6,187
South Atlantic:						
Sand and gravel production and shipments, total.....	52,171	49,313	55,837	(NA)	33,515	40,369
Common sand, total.....	30,734	29,318	25,847	(NA)	(NA)	(NA)
Run of pit or bank.....	9,285	9,286	6,711	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	21,449	20,032	19,136	(NA)	(NA)	(NA)
Glass sand and molding sand.....	1,653	1,653	5,566	(NA)	(NA)	(NA)
Gravel, total.....	19,784	18,342	24,424	(NA)	(NA)	(NA)
Run of pit or bank.....	3,637	3,636	3,140	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	16,147	14,706	21,284	(NA)	(NA)	(NA)
Sand and gravel production and shipments, by State:						
Delaware.....	891	834	759	820	671	567
Maryland and District of Columbia.....	8,978	7,642	10,217	(NA)	8,646	11,278
Virginia.....	8,511	8,415	10,673	(NA)	6,084	7,635
West Virginia.....	5,276	5,168	8,647	(NA)	4,059	8,291
North Carolina.....	5,496	5,402	5,548	4,494	4,482	4,378
South Carolina.....	4,072	3,959	4,085	(NA)	2,815	2,625
Georgia.....	5,058	5,106	5,153	(NA)	3,052	2,715
Florida.....	13,889	12,787	10,755	(NA)	3,706	2,880
East South Central:						
Sand and gravel production and shipments, total.....	22,088	21,644	23,029	(NA)	17,629	17,858
Common sand, total.....	10,833	10,518	10,214	(NA)	(NA)	(NA)
Run of pit or bank.....	2,234	2,209	2,003	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	8,599	8,309	8,211	(NA)	(NA)	(NA)
Glass sand and molding sand.....	977	975	1,646	(NA)	(NA)	(NA)
Gravel, total.....	10,278	10,151	11,169	(NA)	(NA)	(NA)
Run of pit or bank.....	1,447	1,384	1,121	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	8,831	8,767	10,048	(NA)	(NA)	(NA)
Sand and gravel production and shipments, by State:						
Kentucky.....	4,402	4,354	4,230	(NA)	3,983	4,047
Tennessee.....	6,738	6,454	7,586	4,747	4,680	5,609
Alabama.....	3,865	3,795	4,143	(NA)	3,582	3,501
Mississippi.....	7,083	7,041	7,070	(NA)	5,384	4,701
West South Central:						
Sand and gravel production and shipments, total.....	53,442	51,581	60,343	(NA)	39,111	42,532
Common sand, total.....	22,742	21,813	21,050	(NA)	(NA)	(NA)
Run of pit or bank.....	3,744	3,746	3,176	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	18,998	18,067	17,874	(NA)	(NA)	(NA)
Glass sand and molding sand.....	838	835	2,480	(NA)	(NA)	(NA)
Gravel, total.....	29,862	28,933	36,813	(NA)	(NA)	(NA)
Run of pit or bank.....	4,664	4,639	4,165	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	25,198	24,294	32,648	(NA)	(NA)	(NA)
Sand and gravel production and shipments, by State:						
Arkansas.....	6,388	6,039	6,439	(NA)	3,926	4,569
Louisiana.....	13,463	13,431	16,465	(NA)	8,564	10,467
Oklahoma.....	4,426	4,307	4,807	3,337	3,322	3,548
Texas.....	29,165	27,804	32,632	23,370	23,299	23,948

See footnotes at end of table.



Table 6A.—Primary Products of the Sand and Gravel Industry Produced in All Industries,  
by Divisions and States: 1958 and 1954—Continued

Product, division, and State	1958			1954		
	Total production  (1,000 short tons)	Total shipments (including interplant transfers) or receipts		Total production <sup>1</sup>  (1,000 short tons)	Total shipments (including interplant transfers) or receipts	
		Quantity (1,000 short tons)	Value (\$1,000)		Quantity (1,000 short tons)	Value (\$1,000)
SAND AND GRAVEL--Continued						
Mountain:						
Sand and gravel production and shipments, total.....	59,540	54,579	41,904	(NA)	20,306	18,326
Common sand, total.....	12,076	9,797	10,220	(NA)	(NA)	(NA)
Run of pit or bank.....	2,906	3,034	2,574	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	9,170	6,763	7,646	(NA)	(NA)	(NA)
Glass sand and molding sand.....	429	419	791	(NA)	(NA)	(NA)
Gravel, total.....	47,035	44,363	30,893	(NA)	(NA)	(NA)
Run of pit or bank.....	28,236	28,391	14,546	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	18,799	15,972	16,347	(NA)	(NA)	(NA)
Sand and gravel production and shipments, by State:						
Montana.....	3,129	2,826	3,595	2,238	2,160	1,820
Idaho.....	3,827	3,441	3,600	2,522	2,484	2,081
Wyoming.....	1,715	1,588	1,265	781	778	588
Colorado.....	9,335	8,263	7,763	(NA)	6,414	5,660
New Mexico.....	7,237	6,582	5,926	3,116	3,062	3,088
Arizona.....	6,028	3,972	4,233	1,339	1,321	1,342
Utah.....	26,603	26,189	13,327	(NA)	2,449	1,748
Nevada.....	1,666	1,718	2,195	1,693	1,638	1,999
Pacific:						
Sand and gravel production and shipments, total.....	86,150	80,634	95,131	(NA)	67,208	70,956
Common sand, total.....	37,062	33,633	36,931	(NA)	(NA)	(NA)
Run of pit or bank.....	3,833	3,802	2,943	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	33,229	29,831	33,988	(NA)	(NA)	(NA)
Glass sand and molding sand.....	1,195	1,174	3,921	(NA)	(NA)	(NA)
Gravel, total.....	47,893	45,827	54,279	(NA)	(NA)	(NA)
Run of pit or bank.....	4,269	4,378	4,001	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	43,624	41,449	50,278	(NA)	(NA)	(NA)
Sand and gravel production and shipments, by State:						
Washington.....	12,220	10,314	9,682	(NA)	10,137	8,823
Oregon.....	6,565	6,169	8,273	(NA)	8,074	8,486
California:						
Sand and gravel, total.....	67,365	64,151	77,176	50,356	48,997	53,647
Common sand, total.....	29,802	27,977	31,281	(NA)	(NA)	(NA)
Run of pit or bank.....	3,182	3,149	2,094	(NA)	(NA)	(NA)
Washed, screened, ground, or otherwise prepared.....	26,620	24,828	29,187	(NA)	(NA)	(NA)
Glass sand and molding sand.....	1,167	1,147	3,772	(NA)	(NA)	(NA)
Gravel, total.....	36,396	35,027	42,123	(NA)	(NA)	(NA)
Run of pit or bank.....	2,990	3,051	2,763	(NA)	(NA)	(NA)
Washed, screened, or otherwise prepared.....	33,406	31,976	39,360	(NA)	(NA)	(NA)
Alaska and Hawaii sand and gravel production and shipments.....	1,226	1,033	1,857	548	548	1,180

NA Not available.

<sup>1</sup>Represents sand and gravel sold or used; figures for divisions and States represent sand and gravel sold or used in the Common Sand and Gravel Subindustry plus shipments of sand and gravel by the Glass Sand and Molding Sand Subindustries.

<sup>2</sup>For divisions and States represents shipments by the Sand and Gravel Industry only. The total value of sand and gravel shipped by the Sand and Gravel Industry in the United States in 1954 was \$408,546 thousand.

<sup>3</sup>Represents value of products sold or used.

Table 6B.—Shipments of Primary Products of the Sand and Gravel Industry  
Distributed by Value Per Ton: 1958

Product and average value per short ton f.o.b. mine or plant <sup>1</sup>	Quantity shipped		Value of shipments	
	Short tons (1,000)	Percent of total quantity	Value (\$1,000)	Percent of total value
<b>Common sand:</b>				
Run of pit or bank, total.....	44,507	100.0	36,143	100.0
Less than \$0.23.....	4,273	9.6	1,045	2.9
\$0.23-\$0.29.....	1,994	4.5	520	1.4
\$0.30-\$0.38.....	1,655	3.7	558	1.5
\$0.39-\$0.48.....	1,782	4.0	782	2.2
\$0.49-\$0.54.....	2,655	6.0	1,334	3.7
\$0.55-\$0.61.....	1,982	4.5	1,129	3.1
\$0.62-\$0.69.....	819	1.8	550	1.5
\$0.70-\$0.78.....	2,357	5.3	1,730	4.8
\$0.79-\$0.88.....	1,337	3.0	1,121	3.1
\$0.89-\$1.00.....	2,156	4.8	2,024	5.6
\$1.01-\$1.11.....	20,244	45.5	20,340	56.3
\$1.12-\$1.41.....	1,427	3.2	1,725	4.8
\$1.42 and over.....	1,826	4.1	3,285	9.1
Washed, screened, ground, or otherwise prepared, total.....	174,900	100.0	183,103	100.0
Less than \$0.38.....	2,931	1.7	753	0.4
\$0.38-\$0.48.....	3,198	1.8	1,348	0.7
\$0.49-\$0.54.....	6,716	3.9	3,421	1.9
\$0.55-\$0.61.....	7,371	4.2	4,299	2.3
\$0.62-\$0.69.....	10,740	6.2	6,988	3.8
\$0.70-\$0.78.....	19,476	11.1	14,372	7.8
\$0.79-\$0.88.....	17,539	10.0	14,591	8.0
\$0.89-\$1.00.....	20,593	11.8	19,558	10.7
\$1.01-\$1.11.....	38,275	21.9	39,483	21.6
\$1.12-\$1.25.....	15,261	8.7	18,109	9.9
\$1.26-\$1.41.....	9,920	5.7	13,213	7.2
\$1.42-\$1.59.....	9,688	5.5	14,429	7.9
\$1.60-\$1.79.....	2,784	1.6	4,666	2.6
\$1.80-\$2.04.....	5,404	3.1	10,569	5.8
\$2.05-\$2.59.....	1,269	0.7	2,889	1.6
\$2.60-\$3.34.....	1,052	0.6	3,013	1.6
\$3.35 and over.....	2,683	1.5	11,402	6.2
<b>Glass sand:</b>				
Run of pit or bank, total.....	357	100.0	612	100.0
Less than \$1.00.....	62	17.4	50	8.2
\$1.00-\$1.59.....	134	37.5	166	27.1
\$1.60 and over.....	161	45.1	396	64.7
Washed, screened, ground, or otherwise prepared, total.....	7,064	100.0	21,343	100.0
Less than \$1.12.....	596	8.4	584	2.7
\$1.26-\$1.79.....	797	11.3	1,188	5.6
\$1.80-\$2.29.....	390	5.4	798	3.7
\$2.30-\$2.94.....	1,622	23.0	4,028	18.9
\$2.95-\$3.34.....	570	8.1	1,746	8.2
\$3.35-\$4.29.....	2,216	31.4	8,514	39.9
\$4.30 and over.....	873	12.4	4,485	21.0
<b>Molding sand:</b>				
Run of pit or bank, total.....	1,244	100.0	1,921	100.0
Less than \$0.61.....	326	26.2	124	6.5
\$0.62-\$1.11.....	243	19.5	189	9.8
\$1.26-\$1.79.....	103	8.3	152	7.9
\$1.80-\$2.59.....	475	38.2	1,161	60.4
\$2.60 and over.....	97	7.8	295	15.4
Washed, screened, ground, or otherwise prepared, total.....	6,465	100.0	17,100	100.0
Less than \$1.00.....	507	7.8	253	1.5
\$1.00-\$1.41.....	411	6.4	493	2.9
\$1.42-\$1.79.....	1,111	17.2	1,762	10.3
\$1.80-\$2.29.....	559	8.6	1,175	6.9
\$2.30-\$2.94.....	847	13.1	2,216	12.9
\$2.95-\$3.34.....	1,298	20.1	4,011	23.4
\$3.35-\$4.29.....	1,196	18.5	4,529	26.5
\$4.30 and over.....	556	8.3	2,661	15.6

See footnotes at end of table.



Table 6B.—Shipments of Primary Products of the Sand and Gravel Industry  
Distributed by Value Per Ton: 1958—Continued

Product and average value per short ton f.o.b. mine or plant <sup>1</sup>	Quantity shipped		Value of shipments	
	Short tons (1,000)	Percent of total quantity	Value (\$1,000)	Percent of total value
Gravel:				
Run of pit or bank, total.....	72,675	100.0	51,950	100.0
Less than \$0.23.....	1,496	2.1	217	0.4
\$0.23-\$0.29.....	1,500	2.1	400	0.7
\$0.30-\$0.38.....	2,445	3.4	820	1.6
\$0.39-\$0.48.....	27,049	37.2	12,118	23.3
\$0.49-\$0.54.....	3,774	5.2	1,919	3.7
\$0.55-\$0.61.....	2,873	3.9	1,650	3.2
\$0.62-\$0.69.....	2,905	4.0	1,911	3.7
\$0.70-\$0.78.....	2,142	2.9	1,570	3.0
\$0.79-\$0.88.....	1,873	2.7	1,554	3.0
\$0.89-\$1.00.....	1,120	1.5	1,083	2.1
\$1.01-\$1.11.....	18,435	25.4	18,526	35.7
\$1.12-\$1.41.....	3,234	4.4	4,041	7.8
\$1.42-\$1.59.....	3,309	4.5	4,947	9.5
\$1.60 and over.....	520	0.7	1,194	2.3
Washed, screened, or otherwise prepared, total.....	218,808	100.0	255,799	100.0
Less than \$0.34.....	2,724	1.2	681	0.3
\$0.34-\$0.48.....	5,595	2.6	2,281	0.9
\$0.49-\$0.54.....	7,330	3.4	3,709	1.5
\$0.55-\$0.61.....	4,036	1.8	2,352	0.9
\$0.62-\$0.69.....	4,461	2.0	2,934	1.2
\$0.70-\$0.78.....	14,929	6.8	10,964	4.3
\$0.79-\$0.88.....	14,686	6.7	12,121	4.7
\$0.89-\$1.00.....	19,270	8.8	18,165	7.1
\$1.01-\$1.11.....	43,190	19.7	44,837	17.5
\$1.12-\$1.25.....	26,433	12.1	31,507	12.3
\$1.26-\$1.41.....	25,335	11.6	33,886	13.2
\$1.42-\$1.59.....	17,909	8.2	27,008	10.6
\$1.60-\$1.79.....	14,621	6.7	24,890	9.7
\$1.80-\$2.04.....	9,192	4.2	17,695	6.9
\$2.05-\$2.59.....	7,230	3.3	16,366	6.4
\$2.60-\$3.34.....	1,184	0.6	3,419	1.3
\$3.35 and over.....	683	0.3	2,986	1.2

<sup>1</sup>The "average values" are based on the entire shipments of the specified product by each establishment. Thus they are representative of varied average prices among establishments but not of variations within an establishment.

Table 7.—Supplies Used in the Sand and Gravel Industry: 1958 and 1954

(Detailed figures for the quantity and cost of supplies used were not obtained for this industry. For the total cost of supplies used, see tables 3A and 3B. For the quantity and cost of sand and gravel received for preparation, see table 6A. For the quantity and total cost of purchased fuels and electricity used, see tables 3A and 3B)

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 8.—General Statistics for Establishments Classified by Output Per Man-hour, by Selected Types of Operation, in the United States: 1958

Subindustry, type of operation, and short tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
COMMON SAND AND GRAVEL SUBINDUSTRY:									
All establishments, total.....	3,534	234,164	2159,384	28,268	61,733	124,802	401,700	516,090	52,818
Less than 1.00.....	39	568	2,516	444	2,231	1,767	5,084	6,441	1,477
1.00-1.99.....	82	1,195	4,654	1,047	2,742	3,888	8,089	10,757	1,135
2.00-2.99.....	154	2,443	9,731	2,150	5,203	8,365	18,637	24,672	4,815
3.00-3.99.....	195	2,888	12,018	2,563	6,066	10,310	21,789	30,297	4,576
4.00-4.99.....	209	2,718	11,998	2,308	5,077	9,771	23,296	31,496	2,644
5.00-5.99.....	231	3,123	13,756	2,739	6,174	11,813	31,571	40,400	3,435
6.00-6.99.....	182	2,298	10,629	1,960	4,342	8,708	24,469	31,179	3,009
7.00-7.99.....	176	2,405	11,536	2,071	4,602	9,544	32,102	39,561	2,891
8.00-8.99.....	174	2,504	13,465	2,014	4,271	10,279	32,658	43,370	2,921
9.00-9.99.....	85	960	4,868	787	1,626	3,918	13,732	17,503	971
10.00-11.99.....	187	2,395	11,623	1,927	3,622	8,806	32,550	40,573	3,294
12.00-14.99.....	194	1,961	9,962	1,594	3,192	7,997	31,012	38,110	3,590
15.00-19.99.....	146	1,553	8,999	1,240	2,419	6,738	30,522	37,596	2,684
20.00 and over.....	116	918	4,598	662	1,155	3,126	19,586	24,360	1,830
Undistributed <sup>3</sup> .....	1,364	6,235	29,029	4,762	9,011	19,772	76,603	99,775	13,546
Producing establishments:									
Bank, mining only, total.....	174	645	2,623	546	1,007	2,111	10,018	12,248	1,668
Less than 2.00.....	5	7	16	7	9	16	14	23	1
2.00-5.99.....	15	139	582	107	204	412	3,578	4,573	198
6.00-9.99.....	17	203	904	185	358	816	2,421	2,733	454
10.00-14.99.....	13	54	197	52	84	189	661	771	42
15.00 and over.....	14	69	342	50	102	220	1,076	1,323	220
Undistributed <sup>3</sup> .....	110	173	582	145	250	458	2,268	2,825	753
Bank, mining with preparation, including crushing, total.....	272	3,033	15,537	2,419	4,919	11,642	33,979	42,355	4,413
Less than 2.00.....	7	69	265	65	137	252	341	397	159
2.00-3.99.....	28	371	1,539	328	685	1,345	2,569	3,152	621
4.00-5.99.....	43	427	1,986	359	711	1,524	3,671	4,794	280
6.00-7.99.....	32	423	1,981	342	727	1,543	4,825	5,753	519
8.00-9.99.....	24	613	3,383	452	925	2,465	6,501	7,992	511
10.00-14.99.....	32	388	2,179	270	519	1,383	5,147	6,206	519
15.00 and over.....	22	215	1,513	163	314	1,027	4,406	5,202	666
Undistributed <sup>3</sup> .....	84	527	2,691	440	901	2,103	6,519	8,859	1,138
Bank and wet pit, total.....	299	5,305	24,363	4,531	10,490	19,526	60,661	78,809	8,322
Less than 2.00.....	17	428	1,874	346	824	1,281	3,027	4,157	814
2.00-3.99.....	39	1,037	4,221	919	2,277	3,591	9,141	12,619	2,753
4.00-5.99.....	61	1,369	6,107	1,207	2,849	5,129	13,789	18,601	1,156
6.00-7.99.....	48	1,004	4,725	865	1,840	3,894	12,062	15,421	980
8.00-9.99.....	17	303	1,506	253	538	1,166	4,720	5,541	188
10.00-11.99.....	14	234	1,280	188	439	950	4,266	4,807	522
12.00-14.99.....	11	207	1,030	176	369	825	3,570	4,338	321
15.00 and over.....	19	226	1,278	170	378	932	4,020	5,142	527
Undistributed <sup>3</sup> .....	73	497	2,342	407	976	1,758	6,066	8,183	1,061
Bank and dry pit, total.....	233	2,437	12,018	2,068	4,392	9,850	30,819	39,234	3,574
Less than 2.00.....	4	150	446	126	231	336	557	790	40
2.00-3.99.....	23	259	1,157	241	580	1,036	1,702	2,271	266
4.00-5.99.....	36	485	2,359	421	945	2,042	4,332	6,027	731
6.00-7.99.....	23	381	2,111	321	740	1,647	5,449	6,188	438
8.00-9.99.....	13	170	1,027	131	287	710	2,156	2,989	328
10.00-11.99.....	13	117	601	100	187	501	1,419	1,724	200
12.00-14.99.....	18	229	1,284	187	419	1,038	3,231	4,502	360
15.00 and over.....	30	362	1,904	311	581	1,613	9,081	10,500	594
Undistributed <sup>3</sup> .....	73	284	1,129	230	422	927	2,892	4,243	617
Wet pit, mining with preparation, including crushing, total.....	151	1,582	7,381	1,369	3,245	6,157	18,242	22,552	2,512
Less than 2.00.....	7	124	632	107	356	548	1,383	1,615	123
2.00-3.99.....	16	280	1,014	247	617	868	2,154	2,788	337
4.00-5.99.....	27	339	1,624	319	772	1,520	4,047	4,593	554
6.00-7.99.....	24	379	1,891	325	770	1,537	4,306	5,532	483
8.00-9.99.....	9	68	261	48	81	181	408	565	85
10.00-11.99.....	8	77	436	63	122	309	975	1,295	41
12.00-14.99.....	8	62	303	40	88	204	861	1,018	143
15.00 and over.....	6	43	217	32	50	132	953	1,207	53
Undistributed <sup>3</sup> .....	46	210	1,003	188	389	858	3,155	3,939	693
Dry pit, mining only, total.....	335	1,719	7,280	1,560	3,306	6,685	27,571	29,677	6,404
Less than 2.00.....	8	62	230	54	103	190	981	1,039	214
2.00-3.99.....	33	472	1,950	427	1,162	1,888	2,875	3,579	525
4.00-5.99.....	25	143	554	137	251	525	1,309	1,448	323
6.00-7.99.....	27	175	662	163	303	625	2,222	2,245	912
8.00-9.99.....	11	40	151	40	73	151	563	644	84
10.00-14.99.....	20	124	581	110	214	494	2,053	2,260	245
15.00 and over.....	14	73	246	61	100	236	1,487	1,593	346
Undistributed <sup>3</sup> .....	197	630	2,906	568	1,100	2,576	16,081	16,869	3,755

See footnotes at end of table.



Table 8.—General Statistics for Establishments Classified by Output Per Man-hour, by Selected Types of Operation, in the United States: 1958—Continued

Subindustry, type of operation, and short tons per man-hour <sup>1</sup>	Estab-lish-ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
Producing establishments—Continued									
Dry pit, mining with preparation plant, including crushing, total.....	455	5,989	29,948	4,959	10,340	23,884	80,578	103,977	9,702
Less than 2.00.....	15	208	803	182	365	687	1,393	1,965	740
2.00-3.99.....	55	849	3,620	751	1,709	3,166	5,634	7,382	1,994
4.00-5.99.....	55	865	4,008	724	1,608	3,279	9,219	11,216	952
6.00-7.99.....	42	520	2,547	455	1,014	2,124	5,961	7,601	414
8.00-9.99.....	38	764	4,482	637	1,378	3,718	13,963	17,978	805
10.00-11.99.....	35	608	3,079	501	922	2,449	9,222	11,215	765
12.00-14.99.....	27	490	2,604	401	814	2,103	8,756	10,460	1,179
15.00 and over.....	50	655	3,918	479	891	2,613	13,153	16,562	815
Undistributed <sup>3</sup> .....	138	1,030	4,887	829	1,639	3,745	13,277	19,598	2,038
Dry pit, mining with screening but no crushing, total.....									
Less than 2.00.....	11	194	712	169	367	596	1,453	2,136	54
2.00-3.99.....	18	237	809	217	576	735	1,835	2,508	249
4.00-5.99.....	30	335	1,409	304	609	1,305	2,965	3,818	213
6.00-7.99.....	20	310	1,334	250	528	1,035	3,060	4,303	265
8.00-9.99.....	12	112	476	98	242	383	1,547	2,016	49
10.00-14.99.....	14	138	587	116	218	491	2,249	2,531	446
15.00 and over.....	12	153	960	134	233	769	4,033	5,226	56
Undistributed <sup>3</sup> .....	102	315	1,312	275	1,012	1,099	4,944	7,152	495
River, mining with preparation, including crushing, total.....									
Less than 2.00.....	4	20	122	17	70	102	189	210	26
2.00-3.99.....	14	386	1,948	328	690	1,509	2,807	4,100	489
4.00-5.99.....	10	245	1,152	199	403	889	1,752	3,209	183
6.00-9.99.....	18	413	2,494	336	688	1,746	5,320	6,836	582
10.00 and over.....	5	67	501	59	156	444	1,796	2,126	39
Undistributed <sup>3</sup> .....	21	257	1,146	222	540	855	2,749	4,071	110
GLASS SAND SUBINDUSTRY:									
All establishments, total.....	45	1,628	7,497	1,339	2,833	5,730	20,672	28,343	2,703
Less than 1.00.....	5	172	569	158	328	504	1,087	1,284	765
1.00-1.49.....	6	331	1,467	282	597	1,227	2,943	4,217	119
1.50-1.99.....	4	337	1,479	261	523	1,024	4,364	5,804	72
2.00-2.99.....	10	451	2,289	361	773	1,635	6,975	9,407	1,265
3.00-3.99.....	5	131	678	111	232	550	2,290	3,769	133
4.00-5.99.....	5	96	572	82	198	474	1,472	1,957	116
6.00 and over.....	5	62	266	43	98	198	1,099	1,385	51
Undistributed <sup>3</sup> .....	5	48	177	41	84	118	442	520	182
Producing dry pits, total.....									
Less than 1.50.....	7	406	1,658	349	666	1,380	3,252	4,581	258
1.50-2.99.....	7	417	1,820	323	629	1,318	5,516	7,362	297
3.00 and over.....	9	169	961	145	348	800	2,816	3,771	144
MOLDING SAND SUBINDUSTRY:									
All establishments, total.....	124	<sup>2</sup> 1,256	<sup>2</sup> 5,445	1,023	1,914	3,909	12,096	16,373	1,041
Less than 1.00.....	10	102	458	96	201	426	917	1,285	71
1.00-1.49.....	9	90	376	69	156	271	607	770	69
1.50-1.99.....	12	307	1,170	263	452	924	2,169	3,095	393
2.00-2.99.....	16	154	589	130	263	503	1,396	2,003	77
3.00-3.99.....	3	25	91	21	35	72	278	356	9
4.00-4.99.....	4	151	562	129	175	360	1,658	1,789	48
5.00-5.99.....	4	23	63	19	26	47	124	140	8
6.00-7.99.....	4	48	212	43	106	183	1,221	1,360	67
8.00-11.99.....	3	28	161	20	37	90	506	670	22
12.00 and over.....	7	38	184	29	51	127	776	1,021	32
Undistributed <sup>3</sup> .....	52	290	1,579	204	412	906	2,444	3,884	245
Producing dry pits, total.....									
Less than 1.49.....	6	54	233	52	104	219	487	728	...
1.50-2.99.....	11	238	969	195	334	724	1,818	2,551	305
3.00 and over.....	8	62	311	52	90	219	859	1,083	32
Undistributed <sup>3</sup> .....	25	113	507	101	208	453	1,345	2,012	104

<sup>1</sup>Represents tons of primary products of the subindustry shipped per man-hour worked by production and development workers.<sup>2</sup>All establishments total includes employees of separately reported central offices and related facilities. These were not distributed by type of operation.<sup>3</sup>Represents establishments reporting no shipments of primary products, or no production and development worker man-hours, or cost of contract work amounting to 30 percent or more of production and development worker wages, or number of working proprietors amounting to 30 percent or more of number of production and development workers, or man-hours spent on development and exploration work amounting to 30 percent or more of total man-hours worked by production and development workers. For all employees for "All establishments" includes data for separately reported central offices and related facilities.

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Divisions, and Selected Types of Operation: 1958

Subindustry, type of operation, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab-lish-ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
COMMON SAND AND GRAVEL SUBINDUSTRY:									
United States, total.....	3,534	234,164	2159,384	28,268	61,733	124,802	401,700	516,090	52,818
Less than 0.10.....	99	276	683	247	330	612	7,762	9,103	2,229
0.10-0.19.....	297	1,986	9,253	1,773	3,566	8,144	59,863	65,515	6,519
0.20-0.29.....	612	5,832	25,531	5,086	10,898	21,919	101,205	117,488	9,937
0.30-0.39.....	538	5,921	26,503	5,203	11,321	22,696	75,958	95,325	8,349
0.40-0.49.....	442	5,461	26,567	4,609	10,312	21,126	59,575	78,533	7,699
0.50-0.59.....	370	4,558	21,894	3,771	8,322	17,325	40,201	57,846	6,196
0.60-0.69.....	209	2,675	12,719	2,157	4,944	9,543	19,703	31,874	3,311
0.70-0.79.....	153	2,299	11,087	1,822	3,969	8,281	14,975	21,525	2,164
0.80-0.89.....	77	786	3,787	623	1,297	2,755	4,461	6,571	684
0.90-0.99.....	50	863	3,735	683	1,620	2,696	3,966	6,190	696
1.00 and over.....	268	2,310	10,551	1,807	3,993	7,687	7,880	17,307	2,559
Undistributed <sup>3</sup> .....	419	1,197	7,074	487	1,161	2,018	6,151	8,813	2,475
New England, total.....	215	1,365	6,381	1,082	2,189	4,735	14,367	18,783	2,288
Less than 0.19.....	17	39	112	38	68	110	928	962	263
0.20-0.29.....	38	169	749	139	279	599	3,030	3,621	315
0.30-0.39.....	33	256	1,260	217	488	1,040	3,114	4,233	357
0.40-0.49.....	30	274	1,330	213	454	971	3,040	4,110	424
0.50-0.59.....	18	158	846	126	245	611	1,539	1,875	123
0.60-0.69.....	14	107	463	88	160	328	711	981	170
0.70-0.79.....	11	76	339	63	110	258	466	581	108
0.80-0.99.....	11	153	745	92	202	405	871	1,283	250
1.00 and over.....	15	91	372	73	132	277	268	715	105
Undistributed <sup>3</sup> .....	28	42	165	33	51	136	400	422	173
Middle Atlantic, total.....	340	3,318	18,004	2,617	5,628	13,237	41,501	53,676	4,204
Less than 0.10.....	9	16	52	11	14	25	601	667	19
0.10-0.19.....	18	165	855	149	241	762	5,836	6,247	225
0.20-0.29.....	57	394	2,068	344	722	1,865	8,263	9,571	718
0.30-0.39.....	55	538	2,625	456	980	2,146	7,463	9,183	1,067
0.40-0.49.....	48	392	2,338	334	720	1,687	5,245	6,507	558
0.50-0.59.....	40	689	3,822	574	1,300	3,003	6,982	11,284	467
0.60-0.69.....	24	269	1,297	218	528	1,010	2,025	2,686	222
0.70-0.79.....	15	386	2,389	248	566	1,468	3,256	4,047	218
0.80-0.99.....	12	153	852	122	272	596	961	1,523	51
1.00 and over.....	22	125	561	90	160	393	408	932	143
Undistributed <sup>3</sup> .....	40	191	1,145	71	125	282	466	1,029	516
East North Central, total.....	990	8,887	42,884	7,299	15,373	33,601	105,397	133,829	13,113
Less than 0.10.....	25	61	120	58	74	118	1,880	1,630	289
0.10-0.19.....	86	548	2,529	499	940	2,268	14,025	16,789	1,238
0.20-0.29.....	156	1,346	6,094	1,161	2,378	5,123	22,854	25,505	2,161
0.30-0.39.....	155	1,633	7,638	1,424	3,117	6,498	21,018	27,571	2,191
0.40-0.49.....	145	1,670	8,188	1,361	2,793	6,461	18,181	23,732	2,508
0.50-0.59.....	112	1,376	6,713	1,172	2,614	5,588	12,382	17,729	2,004
0.60-0.69.....	62	758	3,993	575	1,248	2,778	6,162	8,618	684
0.70-0.79.....	43	532	2,508	411	804	1,831	3,373	4,810	848
0.80-0.89.....	13	79	430	70	160	332	516	772	40
0.90-0.99.....	16	122	595	106	233	507	637	1,026	100
1.00 and over.....	69	497	2,388	389	855	1,748	1,703	3,428	416
Undistributed <sup>3</sup> .....	108	265	1,688	73	157	349	2,666	2,219	634
West North Central, total.....	627	4,364	19,376	3,596	7,764	15,034	44,014	57,248	6,908
Less than 0.10.....	17	31	86	27	38	76	886	698	373
0.10-0.19.....	54	260	985	219	376	789	7,227	8,285	856
0.20-0.29.....	108	658	2,589	578	1,147	2,285	10,251	11,413	1,318
0.30-0.39.....	77	605	2,863	544	1,193	2,552	8,344	10,508	789
0.40-0.49.....	51	470	2,159	394	843	1,767	4,871	6,233	863
0.50-0.59.....	61	498	2,188	426	871	1,783	3,982	5,418	465
0.60-0.69.....	38	273	1,270	233	552	1,085	2,006	3,456	376
0.70-0.79.....	24	304	1,327	247	460	898	1,775	2,629	261
0.80-0.89.....	23	186	802	141	289	559	938	1,448	125
0.90-0.99.....	9	124	563	105	216	446	597	865	94
1.00 and over.....	67	641	2,748	548	1,292	2,286	2,038	4,340	1,118
Undistributed <sup>3</sup> .....	98	314	1,796	134	487	508	1,099	1,955	270
South Atlantic, total.....	292	3,654	14,329	3,164	6,732	11,557	37,961	50,811	4,954
Less than 0.10.....	8	25	67	24	29	62	815	930	135
0.10-0.19.....	19	49	138	47	71	129	916	911	158
0.20-0.29.....	52	892	3,841	770	1,738	3,090	15,155	18,441	943
0.30-0.39.....	52	690	2,482	615	1,337	2,113	7,123	9,399	717
0.40-0.49.....	35	630	2,509	564	1,225	2,136	5,552	8,205	513
0.50-0.59.....	34	611	2,523	506	1,147	2,007	4,629	6,735	1,811
0.60-0.69.....	17	303	1,184	253	460	883	1,769	3,308	206
0.70-0.79.....	11	81	242	74	112	208	332	540	26
0.80-0.99.....	8	74	223	67	126	177	253	379	74
1.00 and over.....	23	238	863	204	422	602	605	1,242	139
Undistributed <sup>3</sup> .....	33	61	257	40	65	150	812	721	232

See footnotes at end of table.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Divisions, and Selected Types of Operation: 1958—Continued

Subindustry, type of operation, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab-lish-ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
COMMON SAND AND GRAVEL SUBINDUSTRY—Continued									
East South Central, total.....	142	1,893	7,304	1,620	4,110	5,785	16,675	21,457	3,333
Less than 0.10.....	7	35	83	31	60	78	1,294	977	405
0.10-0.19.....	11	65	201	59	92	182	1,319	1,124	586
0.20-0.29.....	31	306	953	268	615	835	3,764	4,614	549
0.30-0.39.....	13	109	480	89	204	379	1,410	1,868	204
0.40-0.49.....	20	373	1,456	320	1,019	1,132	3,239	4,165	500
0.50-0.59.....	13	128	564	108	258	424	1,038	1,254	98
0.60-0.69.....	11	292	1,034	270	692	890	1,579	2,826	333
0.70-0.79.....	8	236	875	187	498	683	1,189	1,736	36
0.80-0.89.....	2	52	190	52	90	186	227	390	4
0.90-0.99.....	5	217	1,061	174	458	735	1,126	1,714	366
1.00 and over.....	5	23	84	21	48	82	43	117	...
Undistributed <sup>3</sup> .....	16	57	323	41	76	179	447	672	252
West South Central, total.....	345	4,274	16,488	3,727	8,979	13,718	41,703	55,510	6,425
Less than 0.10.....	8	22	30	19	22	27	525	353	330
0.10-0.19.....	35	201	689	187	505	622	4,312	5,468	274
0.20-0.29.....	59	874	3,359	787	1,924	3,044	13,009	16,114	1,665
0.30-0.39.....	67	912	3,435	824	1,977	2,987	9,895	12,584	1,328
0.40-0.49.....	37	631	2,480	598	1,488	2,284	5,633	7,539	1,185
0.50-0.59.....	34	443	1,784	365	826	1,400	3,268	5,015	386
0.60-0.69.....	15	227	878	204	478	751	1,353	2,221	334
0.70-0.79.....	16	332	1,267	284	710	1,093	1,676	2,534	234
0.80-0.89.....	5	60	228	52	104	191	268	373	18
0.90-0.99.....	6	182	558	160	428	452	591	1,153	18
1.00 and over.....	26	221	741	192	401	627	533	1,323	468
Undistributed <sup>3</sup> .....	37	169	1,039	55	116	240	640	833	189
Mountain, total.....	218	1,813	8,895	1,536	3,176	7,341	29,979	34,447	3,666
Less than 0.10.....	6	9	25	9	13	25	371	290	154
0.10-0.19.....	29	355	2,280	308	697	1,964	14,399	14,633	1,778
0.20-0.29.....	40	246	1,024	210	401	868	4,006	4,561	491
0.30-0.39.....	32	419	1,802	370	717	1,557	4,946	5,682	651
0.40-0.49.....	26	214	1,142	165	402	892	2,572	3,340	158
0.50-0.59.....	19	160	752	136	267	569	1,391	2,077	121
0.60-0.69.....	9	126	470	109	184	413	701	1,464	100
0.70-0.79.....	11	98	511	85	194	423	688	949	49
0.80-0.99.....	5	71	300	60	112	252	338	496	5
1.00 and over.....	17	90	419	75	167	327	266	642	81
Undistributed <sup>3</sup> .....	24	25	169	9	22	51	301	313	78
Pacific, total.....	365	4,596	25,723	3,627	7,782	19,794	70,103	90,329	7,923
Less than 0.10.....	15	71	205	62	71	186	3,192	3,340	512
0.10-0.19.....	32	310	1,479	273	585	1,333	9,899	11,314	1,153
0.20-0.29.....	71	947	4,854	829	1,694	4,210	19,873	23,648	1,777
0.30-0.39.....	54	759	3,918	664	1,308	3,424	11,232	14,297	1,045
0.40-0.49.....	50	807	4,965	660	1,368	3,796	11,242	14,702	990
0.50-0.59.....	39	495	2,702	358	794	1,940	4,990	6,459	721
0.60-0.69.....	19	320	2,130	207	642	1,405	3,835	6,314	886
0.70-0.79.....	14	254	1,629	223	515	1,419	2,220	3,699	384
0.80-0.99.....	12	176	975	105	227	613	1,104	1,339	235
1.00 and over.....	24	384	2,375	215	516	1,345	2,016	4,568	89
Undistributed <sup>3</sup> .....	35	73	491	31	62	123	500	649	131
Producing establishments by selected types of operation:									
Bank, mining only, total.....	174	645	2,623	546	1,007	2,111	10,018	12,248	1,668
Less than 0.10.....	8	14	50	10	13	24	647	651	167
0.10-0.19.....	16	101	495	66	144	321	4,076	4,981	358
0.20-0.29.....	25	106	388	91	160	312	1,588	1,927	208
0.30-0.39.....	22	161	647	134	247	530	1,879	2,132	297
0.40-0.49.....	7	62	235	61	114	232	547	654	182
0.50-0.59.....	13	72	292	68	124	272	556	747	54
0.60-0.69.....	9	29	74	28	41	70	115	142	17
0.70-0.79.....	6	23	99	21	36	86	138	215	2
0.80-0.99.....	4	18	93	15	28	56	104	120	18
1.00 and over.....	19	41	180	36	69	148	121	283	115
Undistributed <sup>3</sup> .....	45	18	70	16	31	60	247	396	250
Bank and wet pit, total.....	299	5,305	24,363	4,531	10,490	19,526	60,661	78,809	8,322
Less than 0.19.....	24	146	608	132	253	530	3,441	3,982	209
0.20-0.29.....	50	1,066	4,741	959	2,335	4,127	19,160	22,055	2,070
0.30-0.39.....	51	945	4,071	855	1,966	3,527	11,792	15,437	1,154
0.40-0.49.....	52	1,117	5,603	943	2,200	4,337	12,580	15,998	1,592
0.50-0.59.....	38	756	3,550	603	1,380	2,583	6,497	9,996	2,090
0.60-0.69.....	20	291	1,399	221	554	1,041	2,157	3,117	323
0.70-0.79.....	20	512	2,426	414	848	1,834	3,326	5,268	339
0.80-0.89.....	5	75	344	61	125	240	394	537	65
0.90-0.99.....	8	141	496	120	326	404	517	774	79
1.00 and over.....	21	199	879	171	384	699	588	1,350	373
Undistributed <sup>3</sup> .....	10	57	246	52	119	204	209	295	28

See footnotes at end of table.

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Divisions, and Selected Types of Operation: 1958—Continued

Subindustry, type of operation, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab-lish-ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
COMMON SAND AND GRAVEL SUBINDUSTRY—Continued									
Producing establishments by selected types of operation—Continued									
Bank and dry pit, total.....	233	2,437	12,018	2,068	4,392	9,850	30,819	39,234	3,574
Less than 0.10.....	7	20	80	20	37	80	844	774	173
0.10-0.19.....	19	148	709	138	253	636	4,889	5,408	133
0.20-0.29.....	38	337	1,657	296	623	1,442	6,846	7,661	623
0.30-0.39.....	32	439	2,255	385	909	1,932	6,311	7,921	868
0.40-0.49.....	31	357	1,901	306	609	1,620	4,200	5,690	412
0.50-0.59.....	28	266	1,541	226	477	1,250	2,801	3,838	399
0.60-0.69.....	19	297	1,408	248	578	1,117	2,173	3,184	518
0.70-0.79.....	13	188	616	153	296	457	826	1,364	70
0.80-0.89.....	12	147	746	103	201	457	894	1,372	199
0.90-0.99.....	3	57	247	42	81	188	266	397	52
1.00 and over.....	19	172	832	143	315	649	625	1,428	119
Undistributed <sup>3</sup> .....	12	9	26	8	13	22	144	197	8
Bank, mining with preparation including crushing, total.....	272	3,033	15,537	2,419	4,919	11,642	33,979	42,355	4,413
Less than 0.10.....	8	15	27	14	17	26	437	463	20
0.10-0.19.....	14	77	334	69	135	313	1,670	1,928	726
0.20-0.29.....	34	272	1,192	232	435	1,018	4,788	5,414	432
0.30-0.39.....	46	464	2,268	373	818	1,702	6,275	7,456	719
0.40-0.49.....	54	853	4,621	696	1,474	3,468	10,541	13,162	1,068
0.50-0.59.....	26	364	2,004	301	575	1,609	3,682	4,767	314
0.60-0.69.....	21	276	1,254	234	486	1,005	1,949	2,815	268
0.70-0.79.....	19	360	2,104	223	462	1,251	2,866	3,639	302
0.80-0.89.....	10	90	462	75	143	334	529	772	17
0.90-0.99.....	6	59	302	51	123	261	323	528	30
1.00 and over.....	22	156	795	114	199	521	619	1,209	227
Undistributed <sup>3</sup> .....	12	47	174	37	52	134	300	202	290
Wet pit, mining with preparation including crushing, total.....	151	1,582	7,381	1,369	3,245	6,157	18,242	22,552	2,512
Less than 0.19.....	14	71	293	64	103	267	1,952	2,042	530
0.20-0.29.....	21	121	458	109	225	410	1,709	1,992	337
0.30-0.39.....	34	476	2,302	430	1,020	2,045	6,819	7,824	868
0.40-0.49.....	29	375	1,857	316	790	1,456	4,084	5,480	260
0.50-0.59.....	18	169	734	143	322	621	1,359	1,892	232
0.60-0.69.....	9	161	602	148	305	547	895	1,333	106
0.70-0.79.....	6	53	336	46	214	289	429	552	35
0.80-0.89.....	5	52	305	37	84	181	364	563	6
0.90 and over.....	9	92	411	68	164	296	320	515	93
Undistributed <sup>3</sup> .....	6	12	83	8	18	45	311	359	45
Wet pit, mining with preparation including screening, but no crushing, total.....	194	1,227	5,083	1,080	2,420	4,438	11,931	16,002	1,374
Less than 0.10.....	6	16	19	14	9	18	326	372	29
0.10-0.19.....	14	26	79	25	38	76	469	604	52
0.20-0.29.....	32	135	609	125	274	570	2,414	2,943	219
0.30-0.39.....	34	222	1,006	199	496	931	3,004	3,757	243
0.40-0.49.....	29	218	781	197	411	694	1,777	2,407	378
0.50-0.59.....	24	230	969	202	421	823	1,822	2,459	108
0.60-0.69.....	9	116	607	95	230	450	942	1,457	164
0.70-0.79.....	8	89	389	79	211	351	519	893	101
0.80-0.89.....	5	28	114	21	44	94	136	152	9
0.90 and over.....	19	144	495	120	281	417	367	737	68
Undistributed <sup>3</sup> .....	14	3	15	3	5	14	155	221	3
Dry pit, mining only, total.....	335	1,719	7,280	1,560	3,306	6,685	27,571	29,677	6,404
Less than 0.10.....	21	49	120	45	80	116	899	1,291	435
0.10-0.19.....	42	338	2,045	306	653	1,808	13,202	12,892	2,219
0.20-0.29.....	47	307	1,046	284	515	980	4,554	4,816	1,101
0.30-0.39.....	39	189	739	180	358	693	2,218	2,456	528
0.40-0.49.....	25	140	559	116	246	479	1,277	1,575	428
0.50-0.59.....	25	312	1,188	269	684	1,124	2,191	2,870	309
0.60-0.69.....	11	45	214	40	77	172	342	592	94
0.70-0.89.....	10	55	164	52	83	157	210	260	22
1.00 and over.....	29	212	902	199	487	874	705	1,274	151
Undistributed <sup>3</sup> .....	86	72	303	69	123	282	1,973	1,651	1,117
Dry pit, mining with preparation including crushing, total.....	455	5,989	29,948	4,959	10,340	23,884	80,578	103,977	9,702
Less than 0.10.....	6	18	72	17	24	62	1,149	1,413	144
0.10-0.19.....	49	500	2,436	444	916	2,135	15,523	17,175	1,070
0.20-0.29.....	87	1,162	5,331	1,011	1,998	4,606	21,059	25,666	1,352
0.30-0.39.....	78	1,135	5,579	1,004	2,060	4,907	15,824	20,337	1,181
0.40-0.49.....	60	796	4,187	694	1,484	3,461	9,215	12,587	1,454
0.50-0.59.....	49	843	4,401	650	1,409	3,249	8,001	10,737	1,570

See footnotes at end of table.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Divisions, and Selected Types of Operation: 1958—Continued

Subindustry, type of operation, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab-lish-ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
COMMON SAND AND GRAVEL SUBINDUSTRY—Continued									
Producing establishments by selected types of operation—Continued									
Dry pit, mining with preparation including crushing—Continued									
0.60-0.69.....	22	344	2,007	229	525	1,315	3,212	6,118	545
0.70-0.79.....	21	405	2,030	337	668	1,537	2,722	3,740	818
0.80-0.89.....	9	134	672	104	244	534	784	1,010	303
0.90-0.99.....	8	171	781	110	242	449	824	1,105	222
1.00 and over.....	37	454	2,268	333	709	1,451	1,741	3,497	975
Undistributed <sup>3</sup> .....	29	27	184	26	61	178	524	592	68
Dry pit, mining with preparation including screening, but no crushing, total.....									
	219	1,794	7,599	1,563	3,785	6,413	22,086	29,690	1,827
Less than 0.10.....	6	31	67	27	54	62	897	746	405
0.10-0.19.....	25	168	648	158	368	592	4,306	5,318	140
0.20-0.29.....	38	368	1,793	316	875	1,522	7,020	9,589	551
0.30-0.39.....	34	265	893	236	488	769	2,484	3,326	276
0.40-0.49.....	26	203	1,036	174	358	839	2,306	3,219	148
0.50-0.59.....	28	439	2,014	375	1,050	1,664	3,685	5,376	121
0.60-0.69.....	13	99	326	93	206	305	506	760	53
0.70-0.79.....	8	85	357	76	163	309	491	598	31
0.80-0.99.....	5	44	132	40	86	123	146	258	33
1.00 and over.....	12	77	276	55	107	176	126	341	24
Undistributed <sup>3</sup> .....	24	15	57	13	30	52	119	159	45
River, mining with preparation including crushing, total.....									
	72	1,388	7,363	1,161	2,547	5,545	14,613	20,552	1,429
Less than 0.19.....	8	60	310	59	132	304	1,929	2,374	21
0.20-0.29.....	11	132	646	125	256	606	2,497	3,029	181
0.30-0.39.....	9	235	1,144	216	430	999	3,069	3,977	311
0.40-0.49.....	6	137	634	124	339	519	1,381	1,789	178
0.50-0.59.....	8	102	522	85	178	385	990	1,142	129
0.60-0.69.....	8	164	1,281	114	299	759	1,956	3,074	364
0.70-0.79.....	5	85	389	73	160	292	525	859	88
0.80-0.99.....	6	165	836	131	237	577	887	1,309	62
1.00 and over.....	7	262	1,423	194	451	953	1,158	2,643	70
Undistributed <sup>3</sup> .....	4	46	178	40	65	151	221	356	25
River, mining with preparation including screening, but no crushing, total.....									
	112	919	4,094	779	1,785	3,303	8,315	10,263	1,015
Less than 0.19.....	7	54	198	48	94	178	1,113	1,148	65
0.20-0.29.....	19	76	322	62	163	272	1,191	1,369	110
0.30-0.39.....	16	131	459	119	250	415	1,257	1,495	65
0.40-0.49.....	14	104	458	87	195	338	1,004	1,233	185
0.50-0.59.....	17	172	755	144	345	593	1,369	1,777	138
0.60-0.69.....	12	124	586	105	275	493	930	1,281	269
0.70-0.99.....	10	188	941	163	314	732	1,162	1,588	132
1.00 and over.....	12	69	368	50	142	275	278	358	50
Undistributed <sup>3</sup> .....	5	1	7	1	7	7	11	14	1
GLASS SAND:									
United States, total.....									
	45	1,628	7,497	1,339	2,833	5,730	20,672	28,343	2,703
0.10-0.19.....	5	17	96	13	33	71	612	517	607
0.20-0.29.....	9	234	1,241	197	445	998	4,942	7,468	302
0.30-0.39.....	12	724	3,497	575	1,190	2,559	10,426	13,634	1,194
0.40-0.49.....	6	145	555	135	340	508	1,197	1,665	126
0.50-0.69.....	7	352	1,624	284	571	1,192	2,867	4,049	381
0.70-0.79.....	4	156	484	135	254	402	628	1,010	93
1.00 and over.....	1								
Undistributed <sup>3</sup> .....	1								
Middle Atlantic, total.....									
	6	356	1,664	292	589	1,314	3,580	5,851	129
0.20-0.29.....	1	356	1,664	292	589	1,314	3,580	5,851	129
0.30-0.39.....	2								
0.40-0.49.....	1								
0.50-0.59.....	1								
0.60-0.69.....	1								
East North Central, total.....									
	6	368	2,032	298	644	1,472	6,018	7,973	1,005
0.20-0.29.....	1	368	2,032	298	644	1,472	6,018	7,973	1,005
0.30-0.39.....	3								
0.50-0.59.....	1								
Undistributed <sup>3</sup> .....	1								

See footnotes at end of table.

Table 9.-General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Divisions, and Selected Types of Operation: 1958-Continued

Subindustry, type of operation, division, and ratio of payroll to value added in mining <sup>1</sup>	Estab- lish- ments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi- tures (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
<b>MOLDING SAND:</b>									
United States, total.....	124	21,256	25,445	1,023	1,914	3,909	12,096	16,373	1,041
Less than 0.19.....	10	58	219	53	119	203	1,759	1,935	169
0.20-0.29.....	19	97	328	86	140	283	1,481	1,861	61
0.30-0.39.....	18	371	1,506	336	583	1,236	4,303	5,243	283
0.40-0.49.....	16	127	532	112	209	425	1,221	1,666	71
0.50-0.59.....	11	190	799	171	354	692	1,418	2,685	153
0.60-0.69.....	8	205	850	158	285	593	1,266	1,844	229
0.70-0.79.....	6	45	166	26	57	100	231	350	10
0.80-0.89.....	7	32	131	24	45	86	152	200	10
1.00 and over.....	14	47	281	40	95	229	196	416	32
Undistributed <sup>3</sup> .....	15	84	633	17	27	62	69	173	23
<b>Middle Atlantic, total.....</b>									
Less than 0.29.....	9	31	88	29	48	83	455	498	52
0.30-0.49.....	10	258	966	232	382	755	2,747	3,215	171
0.50-0.69.....	6	216	928	188	360	753	1,605	2,620	324
0.70-0.79.....	1	78	507	23	38	77	158	358	18
0.80-0.89.....	2								
1.00 and over.....	2								
Undistributed <sup>3</sup> .....	5								
<b>East North Central, total.....</b>									
Less than 0.19.....	5	48	190	44	104	175	1,420	1,758	66
0.20-0.29.....	6	29	113	26	42	95	465	570	21
0.30-0.39.....	8	141	651	128	245	580	1,761	2,323	134
0.40-0.49.....	8	74	339	63	110	244	766	1,042	43
0.50-0.69.....	5	68	292	46	90	192	434	608	48
0.70-0.89.....	7	44	159	26	54	94	207	280	9
1.00 and over.....	5	41	338	20	57	137	134	158	18
Undistributed <sup>3</sup> .....	3								

<sup>1</sup>Note that in computing these ratios contract employment serving the establishment is excluded. The cost of contract work expressed as a percent of payroll for 1958 was: For the Common Sand and Gravel Subindustry, 9 percent; for the Glass Sand Subindustry, 2 percent; for the Molding Sand Subindustry, 10 percent.

<sup>2</sup>Includes figures for separately reported central offices and related facilities. These were not distributed by type of operation.

<sup>3</sup>Represents establishments with zero or negative value added; establishments with no employees; and for number of employees and payroll for the United States and Divisions, figures for separately reported central offices and related facilities.



Table 10.—Value Added in Mining Per Employee by Size of Establishment, by Selected Types of Operation, for the United States: 1958

Subindustry, type of operation, and value added per employee class <sup>1</sup>	Number of--		Number of establishments with average employment of--				
	Establishments	Employees	0-19	20-49	50-99	100-249	250-499
<b>COMMON SAND AND GRAVEL SUBINDUSTRY:</b>							
All establishments, total.....	3,534	<sup>2</sup> 34,164	3,087	369	56	22	...
Less than \$3,000.....	222	1,377	211	10	1	...	...
\$3,000-\$3,999.....	154	1,374	136	16	...	2	...
\$4,000-\$4,999.....	175	1,930	149	19	7	...	...
\$5,000-\$5,999.....	202	1,995	180	18	4	...	...
\$6,000-\$6,999.....	202	2,269	177	18	6	1	...
\$7,000-\$7,999.....	209	2,614	169	36	2	2	...
\$8,000-\$8,999.....	221	2,390	181	37	2	1	...
\$9,000-\$9,999.....	170	2,332	137	23	7	3	...
\$10,000-\$12,499.....	424	5,040	366	43	10	5	...
\$12,500-\$14,999.....	301	3,485	248	49	2	2	...
\$15,000-\$17,499.....	229	2,631	191	32	4	2	...
\$17,500-\$19,999.....	186	1,641	164	18	3	1	...
\$20,000 and over.....	437	3,925	383	43	8	3	...
Undistributed <sup>3</sup> .....	402	1,161	395	7	...	...	...
<b>Producing establishments:</b>							
Bank, mining only, total.....	174	645	168	5	1	...	...
Less than \$3,000.....	17	47	17	...	...	...	...
\$3,000-\$3,999.....	12	23	12	...	...	...	...
\$4,000-\$4,999.....	8	18	8	...	...	...	...
\$5,000-\$5,999.....	9	34	9	...	...	...	...
\$6,000-\$6,999.....	8	67	6	2	...	...	...
\$7,000-\$7,999.....	6	24	6	...	...	...	...
\$8,000-\$8,999.....	5	40	4	1	...	...	...
\$9,000-\$9,999.....	7	27	7	...	...	...	...
\$10,000-\$12,499.....	18	129	17	1	...	...	...
\$12,500-\$14,999.....	6	19	6	...	...	...	...
\$15,000-\$17,499.....	8	69	7	1	...	...	...
\$17,500-\$19,999.....	6	36	6	...	...	...	...
\$20,000 and over.....	20	95	19	...	1	...	...
Undistributed <sup>3</sup> .....	44	17	44	...	...	...	...
Bank and dry pit, total.....	233	2,437	201	30	1	1	...
Less than \$3,000.....	9	58	9	...	...	...	...
\$3,000-\$3,999.....	14	215	11	2	...	1	...
\$4,000-\$4,999.....	11	112	9	2	...	...	...
\$5,000-\$5,999.....	15	118	15	...	...	...	...
\$6,000-\$6,999.....	13	208	11	1	1	...	...
\$7,000-\$7,999.....	15	119	14	1	...	...	...
\$8,000-\$8,999.....	13	145	11	2	...	...	...
\$9,000-\$9,999.....	14	139	12	2	...	...	...
\$10,000-\$12,499.....	34	339	31	3	...	...	...
\$12,500-\$14,999.....	26	333	21	5	...	...	...
\$15,000-\$17,499.....	19	236	15	4	...	...	...
\$17,500-\$19,999.....	8	45	8	...	...	...	...
\$20,000 and over.....	31	366	23	8	...	...	...
Undistributed <sup>3</sup> .....	11	4	11	...	...	...	...
Bank and wet pit, total.....	299	5,305	221	56	15	7	...
Less than \$3,000.....	16	189	15	...	1	...	...
\$3,000-\$3,999.....	9	134	6	3	...	...	...
\$4,000-\$4,999.....	14	139	12	2	...	...	...
\$5,000-\$5,999.....	18	390	11	5	2	...	...
\$6,000-\$6,999.....	19	257	15	3	1	...	...
\$7,000-\$7,999.....	19	363	12	7	...	...	...
\$8,000-\$8,999.....	29	482	21	7	...	1	...
\$9,000-\$9,999.....	16	540	8	3	4	1	...
\$10,000-\$12,499.....	51	979	39	7	4	1	...
\$12,500-\$14,999.....	32	717	23	6	1	2	...
\$15,000-\$17,499.....	18	395	10	7	...	1	...
\$17,500-\$19,999.....	15	218	12	2	1	...	...
\$20,000 and over.....	35	455	30	3	1	1	...
Undistributed <sup>3</sup> .....	8	47	7	1	...	...	...
Bank, mining with preparation including crushing, total..	272	3,033	238	29	2	3	...
Less than \$3,000.....	11	63	11	...	...	...	...
\$3,000-\$3,999.....	16	104	16	...	...	...	...
\$4,000-\$4,999.....	11	98	11	...	...	...	...
\$5,000-\$5,999.....	17	184	16	...	1	...	...
\$6,000-\$6,999.....	17	117	17	...	...	...	...
\$7,000-\$7,999.....	20	189	18	2	...	...	...
\$8,000-\$8,999.....	19	247	13	6	...	...	...
\$9,000-\$9,999.....	19	524	13	4	...	2	...
\$10,000-\$12,499.....	45	644	37	6	1	1	...
\$12,500-\$14,999.....	26	258	23	3	...	...	...
\$15,000-\$17,499.....	16	214	12	4	...	...	...
\$17,500-\$19,999.....	15	116	13	2	...	...	...
\$20,000 and over.....	30	233	28	2	...	...	...
Undistributed <sup>3</sup> .....	10	42	10	...	...	...	...

See footnotes at end of table.

Table 10.—Value Added in Mining Per Employee by Size of Establishment, by Selected Types of Operation, for the United States: 1958—Continued

Subindustry, type of operation, and value added per employee class <sup>1</sup>	Number of--		Number of establishments with average employment of--				
	Establishments	Employees	0-19	20-49	50-99	100-249	250-499
<b>COMMON SAND AND GRAVEL SUBINDUSTRY—Continued</b>							
Producing establishments—Continued							
Wet pit, mining with preparation including crushing, total.....	151	1,582	130	18	3	...	...
Less than \$3,000.....	5	43	4	1	...	...	...
\$3,000-\$3,999.....	6	47	6	...	...	...	...
\$4,000-\$4,999.....	9	140	6	3	...	...	...
\$5,000-\$5,999.....	11	77	11	...	...	...	...
\$6,000-\$6,999.....	8	58	8	...	...	...	...
\$7,000-\$7,999.....	7	114	4	3	...	...	...
\$8,000-\$8,999.....	14	189	11	2	1	...	...
\$9,000-\$9,999.....	8	100	7	...	1	...	...
\$10,000-\$12,499.....	21	197	18	3	...	...	...
\$12,500-\$14,999.....	16	160	14	2	...	...	...
\$15,000-\$17,499.....	20	270	17	2	1	...	...
\$17,500-\$19,999.....	10	118	8	2	...	...	...
\$20,000 and over.....	11	58	11	...	...	...	...
Undistributed <sup>3</sup> .....	5	11	5	...	...	...	...
Wet pit, mining with preparation including screening, but no crushing, total.....	194	1,227	184	10	...	...	...
Less than \$3,000.....	15	92	15	...	...	...	...
\$3,000-\$3,999.....	9	76	9	...	...	...	...
\$4,000-\$4,999.....	9	50	9	...	...	...	...
\$5,000-\$5,999.....	19	166	17	2	...	...	...
\$6,000-\$6,999.....	17	96	16	1	...	...	...
\$7,000-\$7,999.....	17	174	15	2	...	...	...
\$8,000-\$8,999.....	13	118	11	2	...	...	...
\$9,000-\$9,999.....	6	27	6	...	...	...	...
\$10,000-\$12,499.....	21	151	20	1	...	...	...
\$12,500-\$14,999.....	13	63	13	...	...	...	...
\$15,000-\$17,499.....	12	66	11	1	...	...	...
\$17,500-\$19,999.....	9	52	8	1	...	...	...
\$20,000 and over.....	21	94	21	...	...	...	...
Undistributed <sup>3</sup> .....	13	2	13	...	...	...	...
Dry pit, mining only, total.....	335	1,719	322	9	2	2	...
Less than \$3,000.....	37	142	37	...	...	...	...
\$3,000-\$3,999.....	17	50	17	...	...	...	...
\$4,000-\$4,999.....	14	140	13	...	1	...	...
\$5,000-\$5,999.....	13	57	13	...	...	...	...
\$6,000-\$6,999.....	9	153	7	1	1	...	...
\$7,000-\$7,999.....	10	134	9	...	...	1	...
\$8,000-\$8,999.....	15	122	13	2	...	...	...
\$9,000-\$9,999.....	9	31	9	...	...	...	...
\$10,000-\$12,499.....	32	146	30	2	...	...	...
\$12,500-\$14,999.....	16	98	16	...	...	...	...
\$15,000-\$17,499.....	18	98	18	...	...	...	...
\$17,500-\$19,999.....	16	109	14	2	...	...	...
\$20,000 and over.....	43	367	41	1	...	1	...
Undistributed <sup>3</sup> .....	86	72	85	1	...	...	...
Dry pit, mining with preparation including crushing, total.....	455	5,989	362	76	14	3	...
Less than \$3,000.....	24	187	22	2	...	...	...
\$3,000-\$3,999.....	14	167	11	3	...	...	...
\$4,000-\$4,999.....	21	314	17	2	2	...	...
\$5,000-\$5,999.....	19	271	14	5	...	...	...
\$6,000-\$6,999.....	25	360	21	3	1	...	...
\$7,000-\$7,999.....	26	498	18	6	2	...	...
\$8,000-\$8,999.....	23	251	18	5	...	...	...
\$9,000-\$9,999.....	27	311	23	3	1	...	...
\$10,000-\$12,499.....	48	931	36	7	4	1	...
\$12,500-\$14,999.....	58	753	41	17	...	...	...
\$15,000-\$17,499.....	35	556	28	5	1	1	...
\$17,500-\$19,999.....	29	401	22	6	...	1	...
\$20,000 and over.....	77	962	62	12	3	...	...
Undistributed <sup>3</sup> .....	29	27	29	...	...	...	...
Dry pit, mining with preparation including screening, but no crushing, total.....	219	1,794	194	20	3	2	...
Less than \$3,000.....	14	125	12	2	...	...	...
\$3,000-\$3,999.....	6	28	6	...	...	...	...
\$4,000-\$4,999.....	19	157	17	2	...	...	...
\$5,000-\$5,999.....	11	62	11	...	...	...	...
\$6,000-\$6,999.....	11	192	10	...	...	1	...
\$7,000-\$7,999.....	18	165	15	3	...	...	...
\$8,000-\$8,999.....	12	65	11	1	...	...	...
\$9,000-\$9,999.....	16	135	15	...	1	...	...
\$10,000-\$12,499.....	25	230	23	1	...	1	...
\$12,500-\$14,999.....	17	153	14	3	...	...	...
\$15,000-\$17,499.....	8	64	7	1	...	...	...
\$17,500-\$19,999.....	9	132	7	...	2	...	...
\$20,000 and over.....	29	271	22	7	...	...	...
Undistributed <sup>3</sup> .....	24	15	24	...	...	...	...

See footnotes at end of table.



Table 10.—Value Added in Mining Per Employee by Size of Establishment, by Selected Types of Operation, for the United States: 1958—Continued

Subindustry, type of operation, and value added per employee class <sup>1</sup>	Number of--		Number of establishments with average employment of--				
	Establishments	Employees	0-19	20-49	50-99	100-249	250-499
<b>COMMON SAND AND GRAVEL SUBINDUSTRY—Continued</b>							
Producing establishments—Continued							
River, mining with preparation including crushing, total.....	72	1,388	48	17	6	1	...
Less than \$3,999.....	7	155	6	...	...	1	...
\$4,000-\$5,999.....	7	172	4	2	1	...	...
\$6,000-\$6,999.....	7	168	5	...	2	...	...
\$7,000-\$7,999.....	5	114	2	3	...	...	...
\$8,000-\$9,999.....	11	156	7	4	...	...	...
\$10,000-\$12,499.....	9	212	5	3	1	...	...
\$12,500-\$14,999.....	5	138	3	1	1	...	...
\$15,000-\$19,999.....	7	119	5	1	1	...	...
\$20,000 and over.....	10	68	8	2	...	...	...
Undistributed <sup>3</sup> .....	4	86	3	1	...	...	...
River, mining with preparation including screening, but no crushing, total.....	112	919	101	11	...	...	...
Less than \$3,000.....	10	53	10	...	...	...	...
\$3,000-\$3,999.....	7	60	6	1	...	...	...
\$4,000-\$4,999.....	8	27	8	...	...	...	...
\$5,000-\$5,999.....	10	137	8	2	...	...	...
\$6,000-\$6,999.....	9	105	8	1	...	...	...
\$7,000-\$7,999.....	10	86	10	...	...	...	...
\$8,000-\$8,999.....	9	93	7	2	...	...	...
\$9,000-\$9,999.....	5	50	4	1	...	...	...
\$10,000-\$12,499.....	12	127	10	2	...	...	...
\$12,500-\$14,999.....	8	76	7	1	...	...	...
\$15,000-\$17,499.....	5	40	4	1	...	...	...
\$17,500-\$19,999.....	5	30	5	...	...	...	...
\$20,000 and over.....	10	35	10	...	...	...	...
Undistributed <sup>3</sup> .....	4	...	4	...	...	...	...
<b>GLASS SAND:</b>							
All establishments, total.....	45	1,628	26	13	3	2	1
Less than \$4,999.....	7	104	6	...	1	...	...
\$5,000-\$6,999.....	5	152	1	4	...	...	...
\$8,000-\$9,999.....	6	378	1	3	1	1	...
\$10,000-\$12,499.....	6	122	5	...	1	...	...
\$12,500-\$14,999.....	6	378	3	2	...	...	1
\$15,000-\$19,999.....	6	351	3	2	...	1	...
\$20,000 and over.....	9	143	7	2	...	...	...
<b>MOLDING SAND:</b>							
All establishments, total.....	124	<sup>2</sup> 1,256	108	13	2	1	...
Less than \$3,000.....	15	46	15	...	...	...	...
\$3,000-\$3,999.....	6	30	6	...	...	...	...
\$4,000-\$4,999.....	10	65	10	...	...	...	...
\$5,000-\$5,999.....	6	159	4	1	1	...	...
\$6,000-\$6,999.....	7	54	6	1	...	...	...
\$7,000-\$7,999.....	11	123	8	3	...	...	...
\$8,000-\$8,999.....	7	75	5	2	...	...	...
\$9,000-\$9,999.....	7	111	5	1	1	...	...
\$10,000-\$12,499.....	16	322	13	2	...	1	...
\$12,500-\$14,999.....	5	78	3	2	...	...	...
\$15,000-\$19,999.....	9	47	9	...	...	...	...
\$20,000 and over.....	11	70	10	1	...	...	...
Undistributed <sup>3</sup> .....	14	76	14	...	...	...	...

<sup>1</sup>See table 9, footnote 1.<sup>2</sup>Includes figures for separately reported central offices and related facilities. These were not distributed by type of operation.<sup>3</sup>Represents establishments with no employees or with negative value added in mining and, for number of employees for all establishments, figures for separately reported central offices and related facilities.

## MINERAL INDUSTRIES—INDUSTRY STATISTICS

Table 11.—Hourly Earnings of Production and Development Workers for Establishments  
With 10 or More Employees, by Divisions: 1958

Subindustry by hourly earnings classes	Number of—		Number of establishments with 10 or more employees in—								
	Estab-lish-ments	Em-ploy-ees <sup>1</sup>	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
COMMON SAND AND GRAVEL SUB-INDUSTRY, TOTAL.....	1,025	25,376	46	97	285	129	97	60	134	48	129
Less than \$1.00.....	21	634	...	2	2	2	3	3	5	1	3
\$1.00-\$1.49.....	191	4,890	5	16	18	12	32	27	70	5	6
\$1.50-\$1.99.....	228	5,399	7	12	61	42	35	18	38	6	9
\$2.00-\$2.49.....	280	6,628	17	35	112	39	16	5	14	18	24
\$2.50-\$2.99.....	188	4,703	15	15	58	25	7	5	4	15	44
\$3.00-\$3.49.....	77	2,337	1	9	23	5	3	1	3	1	31
\$3.50-\$3.99.....	23	487	1	2	8	2	...	...	...	1	9
\$4.00-\$4.49.....	7	133	...	2	1	...	1	...	...	...	3
\$4.50 and over.....	7	123	...	3	2	2	...	...	...	...	...
No production or develop-ment workers.....	3	42	...	1	...	...	...	1	...	1	...
GLASS SAND SUBINDUSTRY, TOTAL..	30	1,573	1	6	3	2	7	4	3	...	4
\$1.00-\$1.49.....	7	207	...	...	...	...	5	2	...	...	...
\$1.50-\$1.99.....	8	257	1	1	...	1	1	2	2	...	...
\$2.00-\$2.49.....	11	990	...	5	2	1	1	...	1	...	1
\$2.50-\$2.99.....	3	...	...	...	1	...	...	...	...	...	2
\$3.00-\$3.49.....	1	119	...	...	...	...	...	...	...	...	1
MOLDING SAND SUBINDUSTRY, TOTAL	30	890	...	10	15	1	...	2	1	1	...
\$1.00-\$1.49.....	4	100	...	1	1	...	...	1	1	...	...
\$1.50-\$1.99.....	8	252	...	2	4	1	...	1	...	...	...
\$2.00-\$2.49.....	16	...	...	7	8	...	...	...	...	1	...
\$2.50-\$2.99.....	1	538	...	1	...	...	...	...	...	...	...
\$3.00-\$3.49.....	1	...	...	...	1	...	...	...	...	...	...

<sup>1</sup>Excludes figures for separately reported central offices and related facilities.

Table 12.—Distribution of Operating Companies by Employment Size and by Number of Establishments for the United States: 1958

Subindustry by establishment count	Number of—			Number of establishments with average employment of—						
	Operating companies	Estab-lish-ments	Em-ployees <sup>1</sup>	0-4	5-9	10-19	20-49	50-99	100-249	250-499
COMMON SAND AND GRAVEL SUB-INDUSTRY, TOTAL.....	3,213	3,534	33,494	1,765	744	578	369	56	22	...
Multiunit companies, total...	318	639	12,338	126	157	155	150	35	16	...
1 establishment <sup>2</sup> .....	189	189	4,103	37	52	44	39	8	9	...
2 establishments.....	67	134	2,167	30	33	35	29	6	1	...
3 or 4 establishments.....	38	122	2,470	19	25	35	32	8	3	...
5 or 6 establishments.....	13	69	1,149	14	17	18	16	3	1	...
7-9 establishments.....	5	40	819	7	8	9	11	5	...	...
10-14 establishments.....	5	60	...	10	10	12	21	5	2	...
20 or more establishments..	1	25	1,630	9	12	2	2	...	...	...
Single unit companies.....	2,895	2,895	21,156	1,639	587	423	219	21	6	...
GLASS SAND SUBINDUSTRY, TOTAL.....	39	45	1,628	10	5	11	13	3	2	1
Multiunit companies, total...	13	19	1,195	1	2	4	8	1	2	1
1 establishment <sup>2</sup> .....	10	10	248	1	1	3	4	1	...	...
2 establishments.....	1	2	947	...	...	...	1	...	1	...
3 or 4 establishments.....	2	7	...	...	1	1	3	...	1	1
Single unit companies.....	26	26	433	9	3	7	5	2	...	...
MOLDING SAND SUBINDUSTRY, TOTAL.....	98	124	1,191	67	27	14	13	2	1	...
Multiunit companies, total...	20	46	682	16	8	11	10	1	...	...
1 establishment <sup>2</sup> .....	12	12	304	2	2	2	5	1	...	...
2 establishments.....	2	4	( <sup>3</sup> )	3	...	1	...	...	...	...
3 or 4 establishments.....	5	17	243	3	3	8	3	...	...	...
10-14 establishments.....	1	13	135	8	3	...	2	...	...	...
Single unit companies.....	78	78	509	51	19	3	3	1	1	...

<sup>1</sup>Excludes figures for separately reported central offices and related facilities.

<sup>2</sup>Represents companies having at least one establishment classified in other industries or subindustries.

<sup>3</sup>Figure for 2 establishment companies is included with figure for 10 to 14 establishments company.



# Clay, Ceramic, and Refractory Minerals

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Industry Group 145, Clay, Ceramic, and Refractory Minerals. Mines operated in conjunction with cement, brick, other structural clay products, and pottery and related products plants are included in these industries when separate reports are available. Establishments primarily engaged in grinding, pulverizing, or otherwise treating clay and ceramic and refractory minerals not in conjunction with mining operations are classified in Industry 3295, Minerals: Ground or Treated. The separate industries included in this group are as follows:

## S.I.C. Code and Title (1957 Edition)

- 1452—Bentonite
- 1453—Fire Clay
- 1454—Fuller's Earth
- 1455—Kaolin and Ball Clay
- 1456—Feldspar
- 1457—Magnesite and Brucite
- 1459—Clay, Ceramic, and Refractory Minerals, N.E.C.

### Industry 1452—Bentonite.

This industry represents establishments primarily engaged in mining, milling, or otherwise preparing bentonite. Establishments engaged in preparing bentonite which do not include a mine are classified in the manufacturing Industry 3295, Minerals: Ground or Treated. Such establishments produced about 13 percent of all prepared bentonite in 1958.

### Industry 1453—Fire Clay.

This industry represents establishments primarily engaged in mining, milling, or otherwise preparing fire clay, including stoneware clay and diaspore. For mines producing fire clay as the principal product as part of an establishment manufacturing cement or clay, refractory, or pottery products, the entire establishment is classified in manufacturing. Such establishments mined about one-half of all fire clay in 1958. These operations were included in the following manufacturing industries: 3241, Cement, Hydraulic; 3251, Brick and Structural Tile; 3255, Clay Refractories; 3259, Structural Clay Products, N.E.C.; and 3269, Pottery Products, N.E.C.

### Industry 1454—Fuller's Earth.

This industry represents establishments primarily engaged in mining, milling, or otherwise preparing fuller's earth.

### Industry 1455—Kaolin and Ball Clay.

This industry represents establishments primarily engaged in mining, milling, or otherwise preparing kaolin or ball clay, including china clay, paper clay, and slip clay.

### Industry 1456—Feldspar.

This industry represents establishments primarily engaged in mining, milling, or otherwise preparing feldspar.

Establishments engaged in grinding feldspar which do not include a mine are classified in the manufacturing Industry 3295, Minerals: Ground or Treated. Such establishments produced about 18 percent of all ground feldspar in 1958.

### Industry 1457—Magnesite and Brucite.

This industry represents establishments primarily engaged in mining, milling, or otherwise preparing crude magnesite or brucite. Calcining activities, which were excluded for 1954, are included for 1958.

### Industry 1459—Clay, Ceramic, and Refractory Minerals, N.E.C.

This industry represents establishments primarily engaged in mining, milling, or otherwise preparing clay, ceramic, or refractory minerals, not elsewhere classified, such as common clay and shale, andalusite, aplite, dumortierite, kyanite, laterite, olivine, pinite, sillimanite, and topaz (nongem). Establishments producing common clay and shale in conjunction with the manufacture of structural clay products are classified in Major Group 32, Stone, Clay, and Glass Products. In 1958, such combination mining and manufacturing establishments were included in the following manufacturing industries: 3241, Cement, Hydraulic; 3251, Brick and Structural Tile; 3253, Ceramic Wall and Floor Tile; 3255, Clay Refractories; 3259, Structural Clay Products, N.E.C.; and 3269, Pottery Products, N.E.C. Nearly 80 percent of all common clay and shale produced in 1958 was mined at such manufacturing establishments.

Selected statistics for fire clay and common clay and shale mines included in manufacturing establishments are shown in tables 1, 2, and 6A of this report.

The total value of shipments and receipts of the clay and related minerals industries in 1958 was \$122.7 million of which primary products of these industries amounted to \$118.3 million and secondary products, receipts for services, and products purchased for resale without further processing amounted to \$4.5 million. Of the total value of shipments for this group, the Bentonite Industry accounted for \$16.8 million; the Fire Clay Industry, \$18.6 million; the Fuller's Earth Industry, \$8.7 million; the Kaolin and Ball Clay Industry, \$42.4 million; the Feldspar Industry, \$6.9 million; the Magnesite and Brucite Industry, \$7.3 million; and the Clay and Related Minerals, N.E.C., Industry, \$22.0 million. These figures represent gross value of shipments and some of them contain duplication due to the inclusion of the value of minerals transferred from one establishment to other establishments in the same industry for preparation. However, for the group as a whole, the cost of minerals received for preparation amounted to only \$0.9 million, or less than one percent of the total value of shipments and receipts of all industries in this group. For the Magnesite and Brucite Industry and the Clay and Related Minerals, N.E.C., Industry, no receipts of minerals for preparation were reported. For the Feldspar Industry, cost of minerals received for preparation was \$456 thousand or about 7 percent of the total value of shipments and receipts. For all other industries in this group the cost of minerals received for preparation



amounted to one percent or less of the industry total value of shipments and receipts.

The general statistics (employment, payrolls, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of establishments in the industry, but also their activities in the production of secondary products, and in the performance of contract work for others. This fact should be taken into account in comparing industry statistics (tables 1-4 and 7-12) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5 which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of net shipments of primary products of the industry produced in the industry and as secondary products by establishments classified in other industries.

The Bureau of the Census statistics on primary products of the Clay, Ceramic, and Refractory Minerals Industries are, in general, comparable with product statistics for the same commodities published by the Bureau of Mines. The differences which occur result primarily from differences in data collection methods, coverage, and objectives sought. The most nearly comparable statistics from the two bureaus are shown in the table below. Major reasons for the differences in the product statistics are:

(1) The Bureau of the Census collects information on production and shipments and calculates net shipments whereas the Bureau of Mines generally obtains figures on products sold or used. Both Census and Mines figures for fire clay and common clay and shale include production for use at the same establishment in manufacturing cement, clay products, and pottery products.

(2) The Bureau of the Census excludes establishments whose value of products and reported costs were below \$500. The Bureau of Mines includes all reports obtained regardless of size. However, the contribution to product of such small operations is usually very small.

(3) Differences exist in coverage in certain areas for both collecting agencies.

(4) In some cases, a respondent may report his product as one type of clay to the Bureau of the Census and as another type of clay to the Bureau of Mines. This accounts for some of the differences between Census and Bureau of Mines figures for bentonite and fuller's earth.

(5) Census figures are sometimes reported at a different level of preparation than the Bureau of Mines figures. In general, Census uses a uniform approach to crude and prepared material, requesting for crude the total material actually loaded at the mine site, and under prepared material, the product of all preparation methods such as drying and pulverizing.

QUANTITY AND VALUE OF MINERAL PRODUCTS AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU OF MINES FOR THE UNITED STATES: 1958

Product	Bureau of the Census statistics			Bureau of Mines statistics		
	Production (1,000 short tons)	Shipments including interplant transfers		Production (1,000 short tons)	Shipments	
		Quantity (1,000 short tons)	Value (\$1,000)		Quantity (1,000 short tons)	Value (\$1,000)
Bentonite:						
Crude bentonite.....	<sup>1</sup> 1,705	<sup>2</sup> 396	<sup>2</sup> 1,394	(NA)	(NA)	(NA)
Prepared bentonite.....	(NA)	<sup>3</sup> 1,343	<sup>2</sup> 21,813	(NA)	(NA)	(NA)
Net shipments by the bentonite industry..	xxx	<sup>3</sup> 1,558	<sup>2</sup> 16,505	<sup>4</sup> 1,291	(NA)	<sup>4</sup> 15,317
Fire clay:						
Crude fire clay.....	<sup>5</sup> 8,724	3,517	13,389	} <sup>4</sup> 8,808	(NA)	<sup>4</sup> 40,420
Prepared fire clay.....	(NA)	1,033	6,070			
Fuller's earth:						
Net shipments.....	xxx	285	6,778	<sup>4</sup> 358	(NA)	<sup>4</sup> 7,609
Kaolin and ball clay:						
Crude kaolin and ball clay.....	<sup>1</sup> 3,044	<sup>2</sup> 314	<sup>2</sup> 3,066	} <sup>4</sup> 2,619	(NA)	<sup>4</sup> 41,924
Prepared kaolin and ball clay.....	(NA)	2,311	44,598			
Feldspar:						
Crude feldspar.....	506	120	866	526	<sup>4</sup> 470	<sup>4</sup> 4,278
Prepared feldspar.....	(NA)	465	6,608	(NA)	470	6,540
Common clay and shale:						
Crude common clay and shale.....	<sup>5</sup> 31,683	2,044	3,034	} <sup>6</sup> 30,674	(NA)	<sup>6</sup> 38,216
Prepared common clay and shale.....	(NA)	3,649	26,191			
Magnesite and brucite.....	<sup>1</sup> 508	154	7,270	} 633	<sup>4</sup> 642	<sup>4</sup> 4,572
Aplite, kyanite, laterite, and olivine.....	(NA)	234	2,777			

<sup>1</sup>Represents quantity mined and prepared at same establishment plus quantity of crude net shipments.

<sup>2</sup>Represents net shipments by mineral industries.

<sup>3</sup>Includes shipments of crude bentonite by mineral industries other than Bentonite.

<sup>4</sup>Represents sold or used by producers.

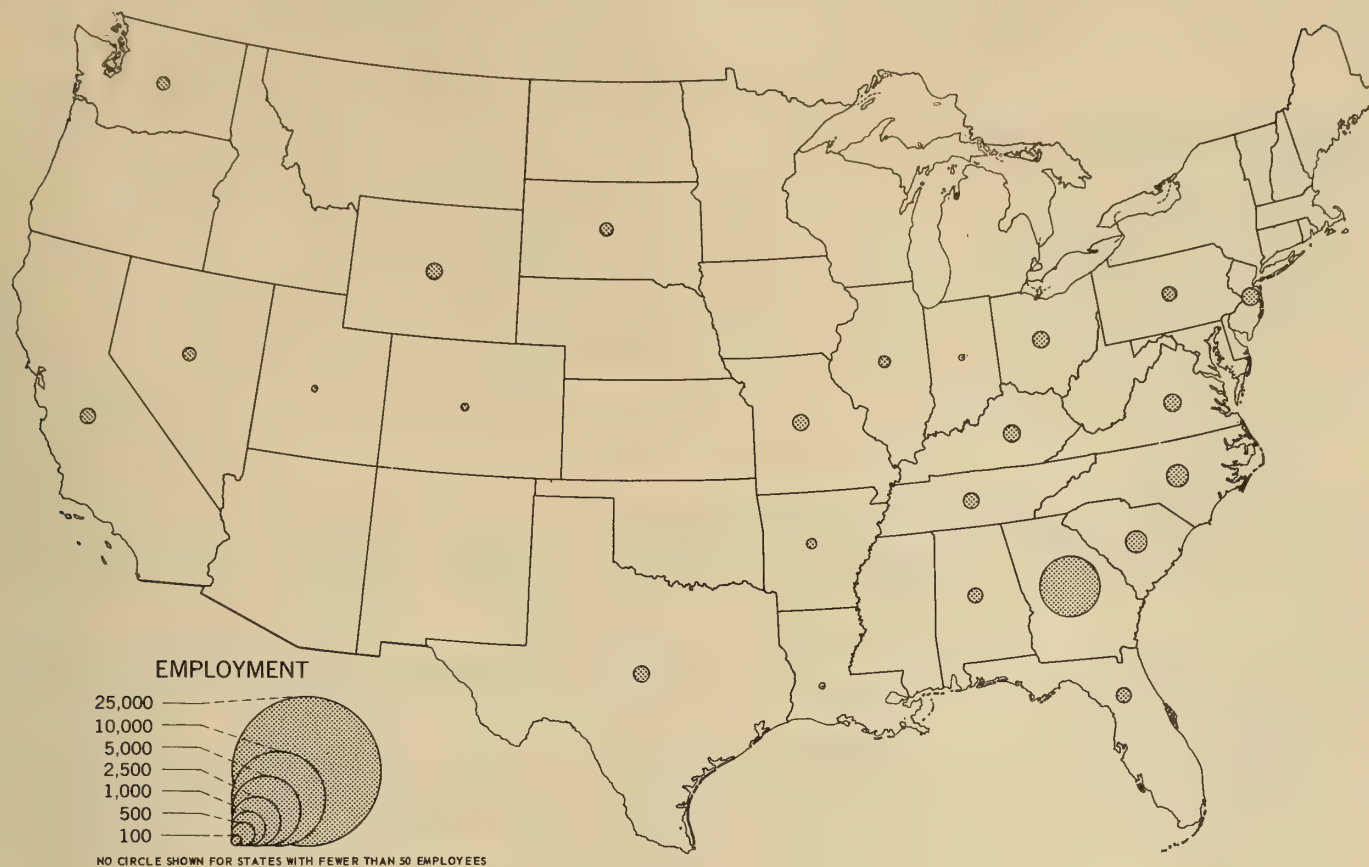
<sup>5</sup>Represents quantity mined and used at the same establishment in making cement, clay products, and prepared clay plus quantity of crude clay shipped.

<sup>6</sup>Includes figures for Hawaii. See also footnote 4.



# CLAY AND RELATED MINERALS

## Distribution of Employment by State: 1958



## Employment and Production, Including Mining in Manufactures: 1840-1958

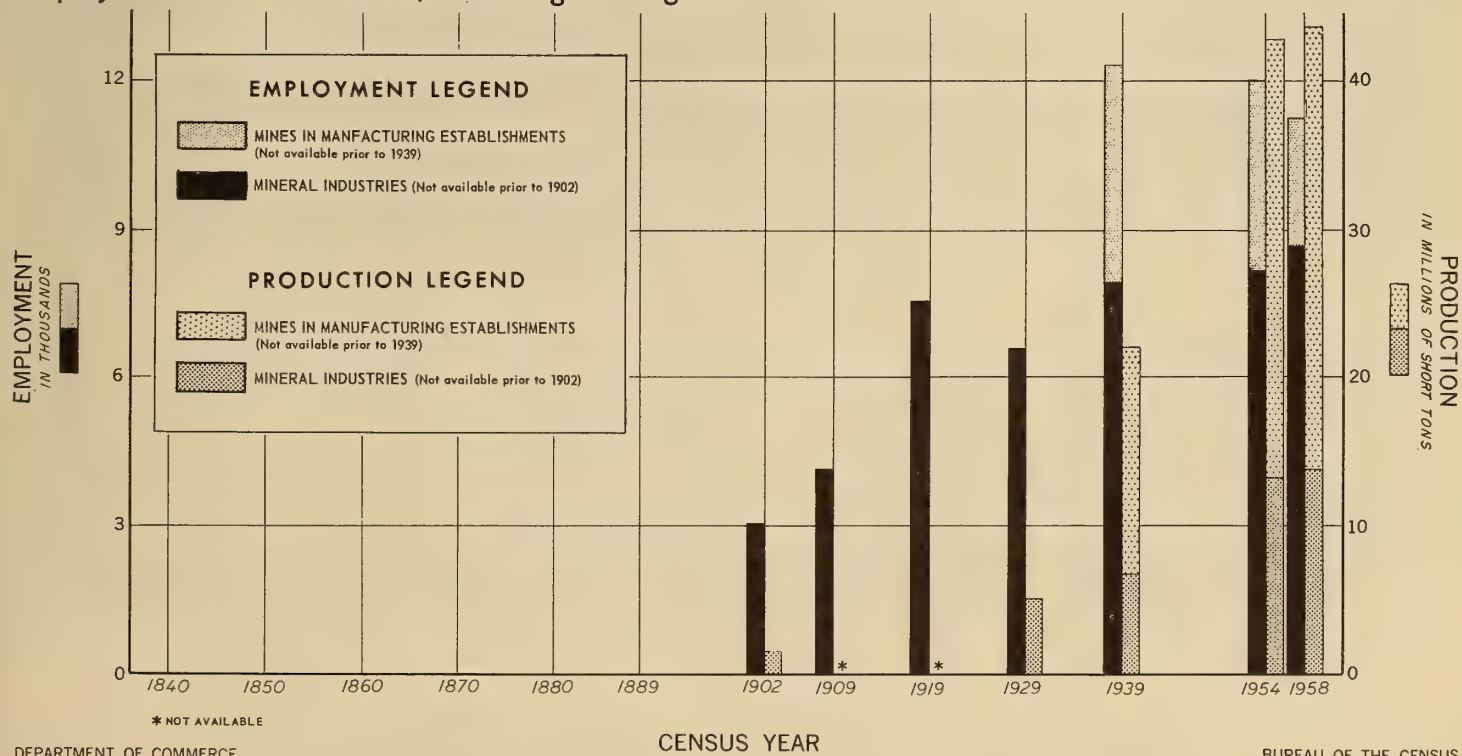


Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. 1.)

Ind. code	Industry and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, minerals received for preparation, fuels, purchased electricity, and contract work (\$1,000)	Cost of purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Value of net shipments and receipts (\$1,000)	Quantity of primary products <sup>1</sup> (1,000 short tons)	Capital expenditures (\$1,000)
			Total	With fewer than 10 employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
145	CLAY AND RELATED MINERALS AND SIMILAR MINES IN MANUFACTURES:															
	1958, total.....	<sup>2</sup> 883	1,202	129	11,347	46,828	9,872	20,044	37,551	128,954	48,496	(NA)	173,597	172,551	43,513	(NA)
	Mines and plants in mineral industries.....	<sup>2</sup> 396	490	112	8,773	36,157	7,298	14,897	26,880	87,368	39,223	9,344	122,738	121,692	13,834	13,197
	Mines in manufacturing establishments.....	<sup>2</sup> 520	712	17	<sup>3</sup> 2,574	<sup>3</sup> 10,671	<sup>3</sup> 2,574	5,147	10,671	41,586	9,273	(NA)	<sup>4</sup> 50,859	<sup>4</sup> 50,859	29,679	(NA)
	1954, total.....	(NA)	1,363	(NA)	12,065	38,738	11,296	23,043	34,724	106,141	36,860	(NA)	140,447	139,142	43,290	(NA)
	Mines and plants in mineral industries.....	475	632	111	8,232	26,504	7,463	15,377	22,490	78,449	27,873	6,508	103,768	102,463	13,143	9,062
	Mines in manufacturing establishments.....	(NA)	731	(NA)	<sup>3</sup> 3,833	<sup>3</sup> 12,234	<sup>3</sup> 3,833	7,666	12,234	27,692	8,987	(NA)	<sup>4</sup> 36,679	<sup>4</sup> 36,679	30,147	(NA)
	1939, total.....	890	<sup>5</sup> 1,132	(NA)	12,301	11,330	11,459	20,466	9,487	21,742	<sup>6</sup> 5,622	(NA)	(NA)	27,364	21,984	(NA)
	Mines and plants in mineral industries.....	(NA)	<sup>5</sup> 454	(NA)	7,936	6,992	7,233	(NA)	5,430	14,425	<sup>6</sup> 3,952	(NA)	(NA)	18,377	(NA)	(NA)
	Mines in manufacturing establishments.....	<sup>2</sup> 556	<sup>5</sup> 678	(NA)	4,365	4,338	4,226	(NA)	4,057	7,317	<sup>6</sup> 1,670	(NA)	(NA)	8,987	(NA)	(NA)
	Mines and plants classified in mineral industries:															
	1929.....	(NA)	277	(NA)	6,669	7,039	6,079	(NA)	5,604	15,105	<sup>6</sup> 4,439	629	(NA)	19,544	5,008	(NA)
	1919.....	(NA)	395	(NA)	7,637	7,908	7,074	(NA)	6,824	11,362	3,465	(NA)	14,827	14,796	(NA)	(NA)
	1909.....	<sup>2</sup> 311	313	(NA)	4,205	1,923	3,901	(NA)	1,623	2,999	602	(NA)	3,601	3,601	(NA)	(NA)
	1902.....	<sup>2</sup> 234	<sup>5</sup> 236	(NA)	3,025	1,281	<sup>7</sup> 2,799	(NA)	1,100	2,060	<sup>6</sup> 369	(NA)	(NA)	2,429	1,467	(NA)
1452	BENTONITE:															
	1958.....	29	41	15	688	2,885	543	1,140	1,996	12,220	4,697	1,009	16,843	(D)	<sup>8</sup> 1,558	1,083
	1954.....	29	43	16	634	2,135	578	1,340	1,920	16,350	<sup>5</sup> 5,518	604	21,830	(D)	1,472	642
	1939 <sup>9</sup> .....	27	<sup>5</sup> 29	(NA)	419	446	357	687	309	1,463	<sup>6</sup> 519	(NA)	(NA)	1,982	223	(NA)
1453	FIRE CLAY AND FIRE CLAY MINES IN MANUFACTURES:															
	1958, total.....	<sup>2</sup> 235	317	28	2,278	9,637	2,084	3,824	8,606	25,848	7,508	(NA)	32,944	32,759	8,447	(NA)
	Fire clay industry.....	136	182	19	1,473	6,020	1,279	2,214	4,989	14,540	4,478	1,695	18,606	18,421	4,000	2,107
	Fire clay mines in manufactures.....	<sup>2</sup> 104	135	9	<sup>3</sup> 805	<sup>3</sup> 3,617	<sup>3</sup> 805	1,610	3,617	11,308	3,030	(NA)	<sup>4</sup> 14,338	<sup>4</sup> 14,338	4,447	(NA)
	1954, total.....	<sup>2</sup> 279	353	(NA)	3,196	10,711	3,011	5,542	9,783	24,335	7,519	(NA)	31,819	31,659	8,394	(NA)
	Fire clay industry.....	180	248	29	1,987	6,598	1,802	3,123	5,670	17,468	4,773	1,292	22,206	22,046	4,405	1,327
	Fire clay mines in manufactures.....	(NA)	<sup>5</sup> 105	(NA)	<sup>3</sup> 1,209	<sup>3</sup> 4,113	<sup>3</sup> 1,209	2,419	4,113	6,867	2,746	(NA)	<sup>4</sup> 9,613	<sup>4</sup> 9,613	3,989	(NA)
	1939, total <sup>10</sup> .....	200	<sup>5</sup> 306	(NA)	3,910	3,865	3,655	5,642	3,366	6,168	<sup>6</sup> 1,010	(NA)	(NA)	7,178	4,101	(NA)
	Fire clay industry.....	(NA)	<sup>5</sup> 196	(NA)	2,317	2,144	2,135	(NA)	1,817	3,411	<sup>6</sup> 678	(NA)	(NA)	4,089	(NA)	(NA)
	Fire clay mines in manufactures.....	75	110	(NA)	1,593	1,721	1,520	(NA)	1,549	2,757	<sup>6</sup> 332	(NA)	(NA)	3,089	(NA)	(NA)
1454	FULLER'S EARTH:															
	1958.....	13	14	6	652	2,399	527	1,145	1,673	5,955	3,053	263	8,692	(D)	285	579
	1954.....	15	16	6	564	1,744	510	1,109	1,381	4,179	1,819	539	6,012	6,012	306	525
	1939.....	21	<sup>5</sup> 22	(NA)	678	746	562	1,051	438	1,402	<sup>6</sup> 705	(NA)	(NA)	2,107	187	(NA)
	1929.....	(NA)	22	(NA)	1,096	1,156	991	(NA)	853	3,589	<sup>6</sup> 1,223	98	(NA)	4,812	370	(NA)
	1919.....	(NA)	9	(NA)	873	635	824	(NA)	541	1,372	647	(NA)	2,019	2,019	(NA)	(NA)
	1909.....	16	16	(NA)	359	157	327	(NA)	119	232	84	(NA)	316	316	(NA)	(NA)
	1902.....	4	<sup>5</sup> 4	(NA)	128	44	<sup>7</sup> 114	(NA)	34	65	<sup>6</sup> 33	(NA)	(NA)	98	11	(NA)
1455	KAOLIN AND BALL CLAY:															
	1958.....	41	53	26	3,394	14,014	2,722	5,675	9,719	30,990	12,682	2,913	42,434	(D)	2,580	4,151
	1954 <sup>11</sup> .....	40	54	28	3,148	9,943	2,820	6,159	8,115	25,249	8,333	2,601	31,892	31,878	2,012	4,291
	1939 <sup>9,11</sup> .....	75	<sup>5</sup> 95	(NA)	3,434	2,467	3,168	5,987	1,830	5,437	<sup>6</sup> 1,802	(NA)	(NA)	7,239	1,010	(NA)
	1889.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	636	330	(NA)
	1880.....	(NA)	<sup>5</sup> 9	(NA)	283	85	(NA)	(NA)	(NA)	175	25	(NA)	(NA)	200	23	(NA)
1456	FEILDSPAR:															
	1958.....	64	74	10	567	1,919	496	1,028	1,515	4,531	2,387	1,277	6,889	6,433	439	1,306
	1954.....	58	84	10	616	1,722	579	1,235	1,523	4,048	2,735	294	6,669	6,239	692	408
	1939 <sup>10</sup> .....	47	<sup>5</sup> 59	(NA)	566	496	512	1,016	383	859	<sup>6</sup> 122	(NA)	(NA)	981	214	(NA)
	1929 <sup>10</sup> .....	(NA)	51	(NA)	693	730	598	(NA)	527	1,599	<sup>6</sup> 336	28	(NA)	1,935	205	(NA)
	1919.....	(NA)	30	(NA)	378	317	349	(NA)	264	441	143	(NA)	584	584	(NA)	(NA)
	1909 <sup>10</sup> .....	22	23	(NA)	275	136	248	(NA)	107	205	66	(NA)	271	271	(NA)	(NA)
	1902.....	26	<sup>5</sup> 27	(NA)	279	127	<sup>7</sup> 252	(NA)	107	200	<sup>6</sup> 50	(NA)	(NA)	250	40	(NA)
	1889.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	39	7	(NA)
	1880.....	(NA)	<sup>5</sup> 14	(NA)	119	39	(NA)	(NA)	(NA)	91	13	(NA)	(NA)	104	22	(NA)
1457	MAGNESITE AND BRUCITE:															
	1958.....	4	4	3	337	1,925	267	428	1,386	5,978	2,167	114	7,270	7,270	154	989
	1954 <sup>12</sup> .....	4	4	2	132	539	121	237	469	1,372	283	17	1,655	1,655	<sup>12</sup> 337	17
	1939.....	3	<sup>5</sup> 4	(NA)	228	324	216	437	300	1,289	107	(NA)	(NA)	1,396	188	(NA)
	1929.....	(NA)	5	(NA)	378	554	351	(NA)	466	1,448	596	44	(NA)	2,044	98	(NA)
	1919.....	(NA)	11	(NA)	486	747	448	(NA)	652	1,459	679	(NA)	2,138	2,107	(NA)	(NA)
	1909 <sup>10,13</sup> .....	6	7	(NA)	63	39	56	(NA)	32	54	14	(NA)	68	68	(NA)	(NA)

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

Ind. code	Industry and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, minerals received for preparation, fuels, purchased electricity, and contract work (\$1,000)	Cost of purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Value of net shipments and receipts (\$1,000)	Quantity of primary products <sup>1</sup> (1,000 short tons)	Capital expenditures (\$1,000)
			Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1459	CLAY AND RELATED MINERALS, NEC, AND MISCELLANEOUS CLAYS MINES IN MANUFACTURES:															
	1958, total.....	<sup>2</sup> 525	699	41	3,431	14,049	3,233	6,804	12,656	43,432	16,002	(NA)	58,525	(D)	30,050	(NA)
	Clay and related minerals, nec, industry.	109	122	33	1,662	6,995	1,464	3,267	5,602	13,154	9,759	2,073	22,004	(D)	4,818	2,982
	Miscellaneous clays mines in manufactures...	<sup>2</sup> 439	577	8	<sup>3</sup> 1,769	<sup>3</sup> 7,054	<sup>3</sup> 1,769	3,537	7,054	30,278	6,243	(NA)	<sup>4</sup> 36,521	<sup>4</sup> 36,521	25,232	(NA)
	1954, total.....	<sup>2</sup> 674	801	(NA)	3,751	11,885	3,653	7,375	11,474	29,109	10,620	(NA)	39,038	(D)	29,890	(NA)
	Clay and related minerals, nec, industry.	169	183	20	1,151	3,823	1,053	2,174	3,412	9,783	4,412	1,161	13,504	(D)	3,836	1,852
	Miscellaneous clays mines in manufactures...	(NA)	<sup>5</sup> 618	(NA)	<sup>3</sup> 2,600	<sup>3</sup> 8,062	<sup>3</sup> 2,600	5,201	8,062	19,326	6,208	(NA)	<sup>4</sup> 25,534	<sup>4</sup> 25,534	26,054	(NA)
	1939, total <sup>9</sup> .....	524	<sup>5</sup> 617	(NA)	3,066	2,986	2,989	5,646	2,861	5,124	<sup>6</sup> 1,357	(NA)	(NA)	6,481	16,035	(NA)
	Clay and related minerals, nec, industry.	(NA)	<sup>5</sup> 67	(NA)	491	489	461	(NA)	439	750	<sup>6</sup> 195	(NA)	(NA)	945	(NA)	(NA)
	Miscellaneous clays mines in manufactures...	467	<sup>5</sup> 550	(NA)	2,575	2,497	2,528	(NA)	2,422	4,374	<sup>6</sup> 1,162	(NA)	(NA)	5,536	(NA)	(NA)
	FIRE CLAY, KAOLIN AND BALL CLAY, AND CLAY AND RELATED MINERALS, NEC:															
	1929.....	(NA)	199	(NA)	4,502	4,599	4,139	(NA)	3,758	8,469	<sup>6</sup> 2,284	459	(NA)	10,753	4,310	(NA)
	1919.....	(NA)	345	(NA)	5,900	6,209	5,453	(NA)	5,367	8,090	1,996	(NA)	10,086	10,086	(NA)	(NA)
	1909.....	267	267	(NA)	3,508	1,591	3,270	(NA)	1,365	2,508	438	(NA)	2,946	2,946	(NA)	(NA)
	1902 <sup>12</sup> .....	204	<sup>5</sup> 205	(NA)	2,618	1,110	<sup>7</sup> 2,433	(NA)	959	1,795	<sup>6</sup> 286	(NA)	(NA)	2,081	1,416	(NA)
	1860.....	(NA)	9	(NA)	95	31	(NA)	(NA)	(NA)	103	39	(NA)	(NA)	142	(NA)	(NA)

D Withheld to avoid disclosing of figures for individual companies.

<sup>†</sup>Revised.

NA Not available.

<sup>1</sup>Represents the product indicated by the name of the industry. For 1958 and 1954, for the mineral industries, represents net shipments (gross shipments less minerals received from other establishments for preparation) and for mines in manufacturing establishments, represents shipments of clay plus production of clay for use at the same establishment in the manufacture of cement, structural clay products, and pottery products. For 1939 and earlier years, represents net production.

<sup>2</sup>Represents the sum of figures shown for separate industries and probably includes some duplication due to the same company operating in more than one industry.

<sup>3</sup>Number of production and development workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are shown for Production and development workers and for All employees.

<sup>4</sup>Includes the estimated value of clay produced and used in the same establishment in the manufacture of cement, structural clay products, and pottery products.

<sup>5</sup>Represents number of mines.<sup>6</sup>Excludes the cost of minerals received for preparation.<sup>7</sup>Figures for average employment were reduced to a 300-day basis for establishments which operated for a shorter period.<sup>8</sup>Includes crude bentonite produced in other industries, amounting to less than one percent of the total shown.

<sup>9</sup>For 1939, establishments primarily producing rotary drilling muds were classified in the Kaolin and ball clay industry. For later years, all clays were classified by type rather than by use and establishments primarily producing rotary drilling muds in that year were probably classified in the Bentonite industry or the Clay and related minerals, nec industry. For Census years prior to 1939, according to the United States Bureau of Mines, there was no production of bentonite.

<sup>10</sup>Excludes nonproducing establishments as follows: for 1939, Fire clay, 2 mines; Feldspar, 1 mine and 1 plant. For 1929, Feldspar, 3 establishments. For 1909, Feldspar, 1 establishment; Magnesite, 1 establishment; for 1902, 7 magnesite mines.

<sup>11</sup>For 1954, in addition to these establishments, 8 mines included in establishments classified in the manufacturing industries were reported. These mines produced and used in the same establishment 104 thousand tons of kaolin and ball clay, valued at approximately \$1,532 thousand. Man-hours worked by production and development workers at these mines were 46 thousand; payroll, \$59 thousand; and cost of supplies, fuels, and purchased electricity and contract work, \$33 thousand. Figures for these establishments are included in the totals for all Clay and related minerals mines operated in 1954 as parts of manufacturing establishments. For 1939, includes data for 18 mines included in establishments classified in the manufacturing industries. These mines had products valued at \$362 thousand; with total employment of 197, of which 178 were production or development workers; the corresponding payrolls were \$119 thousand and \$87, respectively; and cost of supplies, fuel, purchased electricity and contract work was \$77 thousand.

<sup>12</sup>For 1954, and possibly for earlier years, excludes data for associated calcining operations. The quantity figures for 1954, and possibly for earlier years, represent shipments of crude material and transfers of crude or crushed and ground material to associated calcining plants.

<sup>13</sup>Only one producing magnesite mine was reported for 1902. Figures for this mine are included with those for the Fire clay, Kaolin and ball clay, and Clay and related minerals, nec industries. See also footnote 10.

<sup>†</sup>Revised.

Table 2.—General Statistics by Regions, States, and Type of Operation: 1958 and 1954

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries by State see table 2 of the corresponding chapter of 1954 Census of Mineral Industries, Vol. I.)

Ind. code	Industry, region or division, State, and type of operation <sup>1</sup>	1958										1954			
		Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, etc., and purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Quantity of primary products <sup>2</sup> (1,000 short tons)	Capital expenditures (\$1,000)	All employ- ment number	Value added in mining (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1452	BENTONITE, TOTAL.....	41	15	688	2,885	543	1,140	1,996	12,220	5,706	16,843	<sup>3</sup> 1,558	1,083	634	16,350
	<u>Region and State</u>														
	West North Central and South..	16	7	345	1,192	292	586	880	4,580	2,087	6,507	<sup>3</sup> 538	160	350	5,357
	Mississippi.....	6	3	126	374	110	215	288	2,308	488	2,770	209	<sup>26</sup>	146	2,281
	Texas.....	6	3	131	436	104	212	287	751	929	1,623	<sup>3</sup> 125	57	90	1,175
	West.....	25	8	343	1,693	251	554	1,116	7,640	3,619	10,336	1,020	923	284	10,993
	Wyoming.....	10	7	212	958	159	367	691	6,479	3,095	8,751	728	823	210	10,389
	California.....	8	1	65	316	59	123	291	871	455	1,259	173	67	(NA)	(NA)
	<u>Type of Operation</u>														
	Mines only (open-pit) <sup>4</sup> .....	16	...	108	570	71	135	260	1,126	375	1,454	<sup>3</sup> 400	47	161	2,553
	Producing mines with preparation plants <sup>5</sup> .....	25	15	580	2,315	472	1,005	1,736	11,094	5,331	15,389	1,158	1,036	473	13,797
1453	FIRE CLAY INDUSTRY AND FIRE CLAY MINES IN MANUFACTURES, TOTAL.....	317	28	2,278	9,637	2,084	3,824	8,606	25,848	9,203	32,944	8,447	(NA)	3,196	24,335
	Fire clay industry.....	182	19	1,473	6,020	1,279	2,214	4,989	14,540	6,173	18,606	4,000	2,107	1,987	17,468
	Fire clay mines in manufactures.....	135	9	805	3,617	805	1,610	3,617	11,308	3,030	14,338	4,447	(NA)	1,209	6,867
	<u>Region and State</u>														
	Middle Atlantic, total.....	72	8	646	2,675	576	1,062	2,331	6,622	2,719	8,244	1,596	(NA)	1,032	8,249
	Fire clay industry.....	46	7	457	1,926	387	683	1,582	3,603	2,120	4,626	799	1,097	721	5,165
	Fire clay mines in manufactures.....	26	1	189	749	189	379	749	3,019	599	3,618	797	(NA)	311	3,084
	New Jersey:														
	Fire clay industry.....	7	2	120	466	87	192	323	651	312	761	53	202	115	501
	Pennsylvania:														
	Fire clay industry.....	39	5	337	1,460	300	491	1,259	2,952	1,808	3,865	746	895	606	4,664
	East North Central, total.....	101	11	650	3,092	599	1,157	2,726	7,428	2,793	9,782	2,909	(NA)	<sup>8</sup> 1,228	<sup>8</sup> 13,969
	Fire clay industry.....	33	5	282	1,359	231	421	993	3,866	1,349	4,776	981	439	<sup>8</sup> 748	<sup>8</sup> 8,880
	Fire clay mines in manufactures.....	68	6	368	1,733	368	736	1,733	3,562	1,444	5,006	1,928	(NA)	6,8480	85,089
	Ohio, total.....	80	11	538	2,589	494	938	2,245	6,291	1,959	7,935	2,284	(NA)	799	8,618
	Fire clay industry.....	24	5	242	1,164	198	346	820	3,422	961	4,068	781	315	430	6,103
	Fire clay mines in manufactures.....	56	6	296	1,425	296	592	1,425	2,869	998	3,867	1,503	(NA)	369	2,515
	Illinois.....	12	...	81	347	79	151	337	686	519	1,127	429	(NA)	38	305
	Fire clay mines in manufactures.....	7	...	60	256	60	120	256	594	301	7895	334	(NA)	(NA)	(NA)
	West North Central.....	52	3	337	1,253	305	549	1,130	4,946	1,772	6,389	1,465	(NA)	( <sup>8</sup> )	( <sup>8</sup> )
	Fire clay industry.....	46	3	303	1,108	271	482	985	3,894	1,484	5,049	1,149	329	( <sup>8</sup> )	( <sup>8</sup> )
	Missouri.....	47	3	318	1,172	286	510	1,049	4,424	1,673	5,773	1,298	(NA)	264	3,147
	South Atlantic.....	16	1	134	645	132	250	634	800	523	1,289	431	(NA)	<sup>9</sup> 714	(NA)
	East South Central.....	30	3	322	1,266	295	472	1,134	2,469	761	3,135	519	(NA)	(NA)	(NA)
	Fire clay industry.....	24	3	296	1,124	269	420	992	1,711	675	2,291	380	95	(NA)	(NA)
	Kentucky.....	17	3	236	924	220	345	850	1,528	559	2,041	321	(NA)	(NA)	(NA)
	Fire clay industry.....	14	3	231	907	215	335	833	1,450	540	1,944	291	46	260	969
	West South Central.....	13	1	66	217	61	117	192	1,720	224	1,919	548	(NA)	( <sup>9</sup> )	(NA)
	Mountain.....	18	...	53	199	51	102	193	778	151	866	316	(NA)	<sup>9</sup>	(NA)
	Pacific.....	15	1	70	290	65	115	266	1,085	260	1,320	663	(NA)	194	(NA)
	<u>Type of Operation</u>														
	Producing operations:														
	Open-pit mines:														
	Mines only.....	121	3	589	2,248	507	917	1,889	7,651	3,508	9,751	2,637	1,408	506	6,080
	Mines with preparation plants.....	28	11	451	2,079	375	731	1,573	4,307	1,771	5,466	990	612	530	4,435
	Underground mines only.....	23	5	343	1,343	324	436	1,232	2,025	753	2,765	297	13	463	2,263
	Other types <sup>10</sup> .....	10	...	90	350	73	130	295	557	141	624	76	74	488	4,690

See footnotes at end of table.



Table 2.—General Statistics by Regions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region or division, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of primary products <sup>2</sup> (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1454	FULLER'S EARTH, TOTAL.....	14	6	652	2,399	527	1,145	1,673	5,955	3,316	8,692	285	579	564	4,179
	<u>Region and State</u>														
	South Atlantic.....	7	6	594	2,213	477	1,042	1,537	5,482	2,818	7,763	245	537	495	3,679
	South Central and West.....	7	...	58	186	50	103	136	473	498	929	40	42	69	500
1455	KAOLIN AND BALL CLAY, TOTAL.....	53	26	3,394	14,014	2,722	5,675	9,719	30,990	15,595	42,434	2,580	4,151	3,148	25,249
	<u>Region and State</u>														
	Northeast, North Central, and South Atlantic.....	32	19	2,935	12,251	2,330	4,846	8,415	25,148	13,675	35,236	2,102	3,587	2,721	20,355
	South Carolina.....	7	5	389	1,422	339	691	1,074	3,152	1,680	4,608	344	224	413	3,009
	Georgia.....	18	12	2,157	8,970	1,822	3,854	6,914	20,963	11,201	29,081	1,678	3,083	2,057	16,486
	South Central.....	15	6	359	1,289	297	649	864	4,503	1,610	5,621	403	492	321	3,268
	Kentucky.....	5	2	96	334	79	204	229	856	540	1,263	91	133	83	1,078
	Tennessee.....	7	4	222	800	184	383	537	2,916	867	3,455	244	328	201	1,783
	West.....	6	1	100	474	95	180	440	1,339	310	1,577	75	72	106	1,626
	<u>Type of Operation</u>														
	Open-pit mines only <sup>11</sup> .....	10	1	96	474	91	193	441	2,008	437	2,407	207	38	216	3,066
	Open-pit mines with preparation plants <sup>12</sup> .....	43	25	3,298	13,540	2,631	5,482	9,278	28,982	15,158	40,027	2,373	4,113	2,932	22,183
1456	FELDSPAR, TOTAL.....	74	10	567	1,919	496	1,028	1,515	4,531	3,664	6,889	439	1,306	616	4,048
	<u>Region and State</u>														
	New England.....	10	2	77	288	62	138	200	342	270	583	45	29	156	858
	West North Central (South Dakota).....	15	1	47	131	42	81	125	438	360	518	24	280	74	502
	South.....	27	6	359	1,121	322	650	902	2,657	2,584	4,333	273	908	341	2,206
	West.....	22	1	84	379	70	159	288	1,094	450	1,455	97	89	45	482
	<u>Type of Operation</u>														
	Producing establishments, total.....	71	10	567	1,918	496	1,027	1,514	4,532	3,661	6,889	439	1,304	616	4,048
	Mines only:														
	Open-pit mines.....	56	...	95	325	86	156	270	470	294	725	103	39	128	725
	Other types <sup>13</sup> .....	3	...	18	48	17	27	40	77	34	107	10	4		
	Mines with preparation plants (open-pit).....	12	10	454	1,545	393	844	1,204	3,985	3,333	6,057	326	1,261	1,488	14,323
	Nonproducing establishments...	3	...	...	1	...	1	1	(15)	3	...	...	2	...	...
1457	MAGNESITE AND BRUCITE.....	4	3	337	1,925	267	428	1,386	5,978	2,281	7,270	154	989	132	1,372
1459	CLAY AND RELATED MINERALS, NEC, INDUSTRY AND MISCELLANEOUS CLAYS MINES IN MANUFACTURES, TOTAL.....	699	41	3,431	14,049	3,233	6,804	12,656	43,432	18,075	58,525	30,050	(NA)	3,751	29,109
	Clay and related minerals, nec, industry...	122	33	1,662	6,995	1,464	3,267	5,602	13,154	11,832	22,004	4,818	2,982	1,151	9,783
	Miscellaneous clays mines in manufactures..	577	8	1,769	6,705	1,769	3,537	7,054	30,278	6,243	16,521	25,232	(NA)	2,600	19,326
	<u>Region and State</u>														
	New England (miscellaneous clays mines in manufactures).	22	...	635	6,141	635	71	141	578	68	16,646	389	(NA)	579	4,127
	Middle Atlantic, total.....	92	5	361	1,782	348	705	1,671	5,135	1,460	6,372	3,409	(NA)		
	Clay and related minerals, nec.....	12	2	99	526	86	182	415	709	830	1,316	363	223	(NA)	(NA)
	Miscellaneous clays mines in manufactures....	80	3	2,626	61,256	2,626	523	1,256	4,426	630	165,056	3,046	(NA)	(NA)	(NA)
	New York.....	24	2	136	711	128	267	635	1,765	391	2,125	1,047	(NA)	129	1,184
	Pennsylvania.....	54	1	137	655	137	276	655	2,471	525	2,974	1,766	(NA)	263	1,837
	East North Central, total.....	150	8	667	2,999	641	1,348	2,845	8,206	3,723	11,136	6,997	(NA)	687	6,046
	Clay and related minerals, nec, industry.....	20	5	230	1,063	204	473	909	1,846	2,188	3,241	681	793	87	753
	Miscellaneous clays mines in manufactures....	130	3	6,437	61,936	6,437	875	1,936	6,360	1,535	167,895	6,316	(NA)	600	5,293

See footnotes at end of table.

Table 2.—General Statistics by Regions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region or division, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, etc., and purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Quantity of primary products <sup>2</sup> (1,000 short tons)	Capital expenditures (\$1,000)	All employees, number	Value added in mining (\$1,000)
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Region and State—Continued</u>														
	East North Central—Continued														
	Ohio.....	71	2	253	1,173	242	504	1,112	3,224	1,182	4,367	2,824	(NA)	289	2,022
	Miscellaneous clays mines in manufactures.....	65	1	6206	6913	6206	412	913	2,626	643	163,269	2,615	(NA)	6270	1,819
	Indiana.....	25	1	111	447	105	214	422	1,121	510	1,540	918	(NA)	118	1,276
	Illinois.....	39	4	225	981	219	477	935	2,360	1,211	2,933	1,735	(NA)	149	1,482
	Clay and related minerals, nec, industry.....	8	3	116	503	110	260	457	758	937	1,057	234	638	(NA)	(NA)
	Miscellaneous clays mines in manufactures.....	31	1	6109	6478	6109	217	478	1,602	274	161,876	1,501	(NA)	(NA)	(NA)
	West North Central, total.....	69	2	305	1,316	284	604	1,206	3,379	1,928	5,174	2,627	(NA)	344	2,728
	Clay and related minerals, nec, industry.....	14	2	147	651	126	288	541	1,147	1,244	2,258	514	133	116	1,135
	Miscellaneous clays mines in manufactures.....	55	...	6158	6665	6158	316	665	2,232	684	162,916	2,113	(NA)	6228	1,593
	Iowa.....	24	...	63	277	62	120	275	871	270	1,140	785	(NA)	87	646
	Missouri.....	17	1	104	515	98	216	483	991	914	1,863	860	(NA)	109	1,420
	Kansas.....	14	1	59	266	50	108	222	1,039	309	1,305	638	(NA)	87	805
	South Atlantic, total.....	105	10	806	3,120	735	1,613	2,604	10,920	4,401	14,583	6,136	(NA)	785	6,542
	Clay and related minerals, nec, industry.....	19	10	493	2,044	422	988	1,528	4,493	3,343	7,098	1,244	738	325	2,538
	Miscellaneous clays mines in manufactures.....	86	...	6313	61,076	6313	625	1,076	6,427	1,058	167,485	4,892	(NA)	6460	4,004
	Virginia, total.....	26	6	329	1,380	278	642	1,035	3,295	2,140	4,834	1,449	(NA)	173	1,456
	Clay and related minerals, nec, industry.....	9	6	273	1,201	222	530	856	2,185	1,982	3,566	620	601	115	887
	Miscellaneous clays mines in manufactures.....	17	...	656	6179	656	112	179	1,110	158	161,268	829	(NA)	658	569
	North Carolina.....	33	2	184	666	175	392	581	3,440	1,312	4,658	2,017	(NA)	206	1,609
	South Carolina.....	16	1	105	327	101	209	288	1,133	285	1,402	549	(NA)	117	(NA)
	Georgia.....	14	1	142	564	135	278	517	2,011	476	2,460	1,318	(NA)	240	(NA)
	East South Central, total.....	60	4	305	985	289	571	861	7,401	1,143	8,475	2,797	(NA)	300	2,309
	Clay and related minerals, nec, industry.....	9	4	149	499	133	258	375	922	593	1,446	348	69	113	577
	Miscellaneous clays mines in manufactures.....	51	...	6156	6486	6156	313	486	6,479	550	167,029	2,449	(NA)	6187	1,732
	Tennessee.....	13	2	103	353	90	176	269	1,746	407	2,115	661	(NA)	74	(NA)
	Alabama.....	24	1	123	329	123	236	329	3,343	316	3,637	1,264	(NA)	119	(NA)
	West South Central, total.....	101	8	582	2,027	553	1,204	1,774	3,703	3,061	6,169	4,544	(NA)	648	3,935
	Clay and related minerals, nec, industry.....	15	7	341	1,274	312	722	1,021	2,198	2,081	3,684	779	595	164	1,803
	Miscellaneous clays mines in manufactures.....	86	1	6241	6753	6241	482	753	1,505	980	162,485	3,765	(NA)	6484	2,132
	Arkansas.....	9	1	137	365	132	269	320	109	546	403	369	(NA)	85	(NA)
	Louisiana.....	13	2	92	454	81	189	336	840	640	1,436	971	(NA)	182	1,564
	Texas, total.....	62	5	291	971	280	605	887	2,327	1,547	3,671	2,711	(NA)	315	1,848
	Clay and related minerals, nec, industry.....	8	4	139	507	128	301	423	1,345	1,026	2,168	434	203	(NA)	(NA)
	Miscellaneous clays mines in manufactures.....	54	1	6152	6464	6152	304	464	982	521	161,503	2,277	(NA)	(NA)	(NA)
	Mountain, total.....	32	1	137	599	127	252	547	1,904	872	2,609	842	(NA)	98	1,329
	Clay and related minerals, nec, industry.....	15	1	98	438	88	174	386	659	689	1,181	317	167	34	357
	Miscellaneous clays mines in manufactures.....	17	...	639	6161	639	78	161	1,245	183	161,428	525	(NA)	64	972
	Pacific, total.....	68	3	232	1,080	220	436	1,007	2,206	1,419	3,361	2,309	(NA)	312	3,382
	Clay and related minerals, nec, industry.....	18	2	105	500	93	182	427	1,180	864	1,780	572	264	136	1,140
	Miscellaneous clays mines in manufactures.....	50	1	6127	6580	6127	254	580	1,026	555	161,581	1,737	(NA)	6176	2,242
	California, total.....	48	3	165	775	156	307	721	1,723	1,047	2,636	1,960	(NA)	247	2,744
	Clay and related minerals, nec, industry.....	14	2	82	388	73	142	334	836	621	1,323	517	134	104	815
	Miscellaneous clays mines in manufactures.....	34	1	683	6387	683	165	387	887	426	161,313	1,443	(NA)	6143	1,929
	<u>Type of Operation</u>														
	Mines only <sup>17</sup> .....	64	1	206	738	188	343	666	1,736	1,276	2,515	1,224	497	291	2,127
	Producing mines with preparation plants <sup>18</sup> .....	58	32	1,456	6,257	1,276	2,924	4,936	11,418	10,556	19,489	3,594	2,485	860	7,656

See footnotes on next page.



Footnotes for Table 2-14D

D Withheld to avoid disclosing of figures for individual companies.

NA Not available.

<sup>1</sup>General statistics for most States are not shown separately in this table in order to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such States are shown below for 1958, with the number of establishments in each State (and in parentheses the number of employees or employment size range):

- SIC 1452, Bentonite: Missouri, 1 (0-4); South Dakota, 1 (50-99); Louisiana, 1 (10-19); Oklahoma, 1 (5-9); Montana, 1 (20-49, including separately reported central offices and related facilities); Arizona, 2 (20-49); Utah, 2 (5-9); Washington, 2 (0-4); California, 8 (50-99).
- SIC 1453, Fire clay: Indiana, 4 (19); Illinois, 5 (21); Iowa, 1 (0-4); Missouri, 44 (250-499); Kansas, 1 (5-9); Maryland, 2 (0-4); West Virginia, 1 (5-9); North Carolina, 1 (0-4); Georgia, 1 (5-9); Alabama, 9 (50-99); Mississippi, 1 (5-9); Texas, 2 (20-49); Montana, 1 (0-4); Colorado, 13 (20-49); Utah, 1 (0-4); Washington, 2 (5-9); California, 9 (33).
- Fire clay mines in manufactures: New Jersey, 2 (5-9); Pennsylvania, 24 (100-249); Indiana, 5 (10-19); Iowa, 1 (0-4); Missouri, 3 (20-49); Kansas, 2 (10-19); Maryland, 2 (20-49); West Virginia, 5 (50-99); South Carolina, 2 (0-4); Georgia, 2 (5-9); Kentucky, 3 (5-9); Alabama, 3 (20-49); Arkansas, 1 (0-4); Texas, 10 (20-49); Colorado, 2 (10-19); Utah, 1 (0-4); Washington, 1 (0-4); California, 3 (20-49).
- SIC 1454, Fuller's earth: Georgia, 6 (250-499); Florida, 1 (100-249, including separately reported central offices and related facilities); Tennessee, 2 (20-49); Mississippi, 1 (10-19); Texas, 1 (0-4); Utah, 1 (5-9); California, 2 (0-4).
- SIC 1455, Kaolin and ball clay: Vermont, 1 (5-9); New Jersey, separately reported central office only (100-249); Pennsylvania, 1 (0-4, including separately reported central office and related facilities); Missouri, 1 (0-4); Maryland, 1 (10-19); North Carolina, 1 (100-249); Florida, 2 (20-49); Alabama, 1 (10-19); Mississippi, 1 (10-19); Arkansas, 1 (10-19); Utah, 1 (50-99); California, 5 (20-49).
- SIC 1456, Feldspar: Maine, 5 (26); New Hampshire, 3 (35, including separately reported central offices and related facilities); Connecticut, 2 (10-19); South Dakota, 15 (47); Virginia, 1 (20-49); North Carolina, 24 (250-499); Georgia, 1 (20-49); Texas, 1 (0-4); Wyoming, 1 (0-4); Colorado, 19 (22); Arizona, 1 (10-19); California, 1 (20-49).
- SIC 1457, Magnesite and brucite: Nevada, 2 (100-249); Washington, 1 (100-249); California, 1 (0-4).
- SIC 1459, Clay and related minerals, nec: New York, 2 (20-49); New Jersey, 4 (48); Pennsylvania, 6 (11); Ohio, 6 (47); Indiana, 3 (47); Michigan, 3 (20-49); Minnesota, 1 (10-19); Iowa, 3 (5-9); Missouri, 4 (63); North Dakota, 1 (5-9); South Dakota, 1 (10-19); Nebraska, 1 (0-4); Kansas, 3 (37); North Carolina, 6 (103); South Carolina, 1 (50-99); Georgia, 3 (56); Kentucky, 2 (20-49); Tennessee, 3 (75); Alabama, 4 (51); Arkansas, 2 (100-249); Louisiana, 3 (70); Oklahoma, 2 (20-49); Wyoming, 1 (50-99); Colorado, 7 (30); New Mexico, 2 (0-4); Utah, 4 (0-4); Nevada, 1 (0-4); Washington, 1 (5-9); Oregon, 3 (10-19).
- Miscellaneous clays mines in manufactures: Maine, 5 (0-4); New Hampshire, 3 (0-4); Vermont, 1 (0-4); Massachusetts, 6 (5-9); Connecticut, 7 (20-49); New York, 22 (50-99); New Jersey, 10 (20-49); Pennsylvania, 48 (100-249); Indiana, 22 (50-99); Michigan, 11 (50-99); Wisconsin, 1 (0-4); Minnesota, 5 (20-49); Iowa, 21 (50-99); Missouri, 13 (20-49); North Dakota, 1 (5-9); South Dakota, 1 (0-4); Nebraska, 3 (10-19); Kansas, 11 (20-49); Delaware, 2 (0-4); Maryland, 10 (20-49); District of Columbia, 1 (0-4); West Virginia, 1 (5-9); North Carolina, 27 (50-99); South Carolina, 15 (20-49); Georgia, 11 (50-99); Florida, 2 (5-9); Kentucky, 8 (20-49); Tennessee, 10 (20-49); Alabama, 20 (50-99); Mississippi, 13 (20-49); Arkansas, 7 (20-49); Louisiana, 10 (20-49); Oklahoma, 15 (20-49); Montana, 2 (0-4); Idaho, 2 (0-4); Wyoming, 2 (10-19); Colorado, 5 (5-9); New Mexico, 1 (5-9); Arizona, 3 (5-9); Utah, 2 (0-4); Washington, 8 (20-49); Oregon, 8 (10-19). In addition, 1 such mine (with 0-4 employees) was reported in Hawaii.
- <sup>2</sup>Represents the product indicated by the name of the industry. For the mineral industries, represents net shipments (gross shipments less minerals received for preparation) and, for mines in manufacturing establishments, represents shipments of clay plus production of clay for use in the same establishment in the manufacture of cement, structural clay products, and pottery products.
- <sup>3</sup>Includes crude bentonite produced in other industries, amounting to less than one percent of the total shown for the United States.
- <sup>4</sup>For 1958, includes data for one nonproducing establishment; for 1954, includes data for 2 combination open-pit and underground mines.
- <sup>5</sup>For 1958, represents data for 23 open-pit mines, 1 combination open-pit and underground mine, and 1 underground mine.
- <sup>6</sup>Number of production and development workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are shown for Production and development workers and for All employees.
- <sup>7</sup>Includes the estimated value of fire clay produced and used in the same establishment in the manufacture of structural clay products and pottery products.
- <sup>8</sup>Figures for West North Central are combined with those for East North Central.
- <sup>9</sup>Figures for West South Central are included with those for South Atlantic and East South Central.
- <sup>10</sup>For 1958, represents 5 combination open-pit and underground mines only, 3 underground mines with preparation plants, and 2 nonproducing establishments.
- <sup>11</sup>For 1958, includes data for 1 combination open-pit and underground mine; and for 1954, data for 2 such mines.
- <sup>12</sup>For 1954, includes data for 1 combination open-pit and underground mine, 1 underground mine, and 1 nonproducing operation.
- <sup>13</sup>Represents 1 combination open-pit and underground mine and 2 underground mines.
- <sup>14</sup>Includes data for one combination open-pit and underground mine and for 3 underground mines.
- <sup>15</sup>Not shown since cost of supplies, fuels, purchased electric energy, contract work, and purchased machinery exceeds capital expenditures.
- <sup>16</sup>Includes the estimated value of common clay and shale produced and used in the same establishment in the manufacture of cement, structural clay products, and pottery products.
- <sup>17</sup>For 1958, represents 59 open-pit mines, 1 combination open-pit and underground mine, 1 underground mine, and 3 nonproducing establishments.
- <sup>18</sup>For 1958, represents 57 open-pit mines with preparation plants, and 1 combination open-pit and underground mine.

Table 3.—Detailed Statistics for Industries, Selected Areas,

	Item	145— Clay and related minerals industries, total	1452—Bentonite				1453—Fire clay	
			United States, all operations	West		Producing mines with preparation plants	United States, all operations	West North Central
				All operations	Wyoming			
1	Number of establishments, total.....	490	41	25	10	25	182	46
2	With 0-19 employees.....	378	26	17	3	10	163	43
3	With 20-99 employees.....	97	15	8	7	15	18	3
4	With 100 employees and over.....	15	...	...	...	...	1	...
5	Including mines.....	490	41	25	10	25	182	46
6	Including preparation plants.....	183	25	15	9	25	31	2
7	Net shipments of primary products <sup>2</sup> ..1,000 short tons..	13,834	<sup>3</sup> 1,558	1,020	728	1,158	4,000	1,149
8	Value of shipments and receipts, total.....\$1,000..	122,738	16,843	10,336	8,751	15,389	18,606	5,049
9	Minerals transferred to other establish- ments for preparation and resales.....do....	1,046	(D)	...	...	(D)	185	...
10	Net shipments and receipts, total.....do....	121,692	(D)	10,336	8,751	(D)	18,421	5,049
11	Primary products.....do....	117,384	(D)	10,336	8,751	(D)	17,559	5,030
12	Other products and services.....do....	4,308	240	...	...	240	862	19
13	Value added in mining.....do....	87,368	12,220	7,640	6,479	11,094	14,540	3,894
14	Number of persons engaged, total.....	9,045	709	359	219	592	1,595	359
15	Production and development workers, average for year.....	7,298	543	251	159	472	1,279	271
16	March.....	7,308	514	216	143	446	1,351	274
17	May.....	7,315	570	262	165	484	1,159	266
18	August.....	7,300	555	268	166	481	1,312	263
19	November.....	7,270	536	257	166	483	1,314	279
20	Other employees.....	1,475	145	92	53	108	194	32
21	Proprietors and firm members.....	272	21	16	7	12	122	56
22	Performing manual labor.....	146	6	5	...	2	59	35
23	Man-hours worked by production and development workers, total.....1,000..	14,897	1,140	554	367	1,005	2,214	482
24	At mines and well operations, total.....do....	6,017	389	186	82	208	1,783	415
25	Underground.....do....	615	16	16	...	16	489	...
26	Open-pits and well operations.....do....	4,846	363	160	74	182	1,174	405
27	Surface (including mine shops and yards).....do....	556	10	10	8	10	120	10
28	At preparation plants.....do....	8,880	751	368	285	797	431	67
29	Man-hours spent on development and explora- tion work (included above).....do....	362	22	16	5	13	100	31
30	Principal expenses designated below, total.....\$1,000..	75,380	7,582	4,480	3,295	6,652	10,498	2,417
31	Wages of production and development workers.....do....	26,880	1,996	1,116	691	1,736	4,989	985
32	Salaries of all other employees.....do....	9,277	889	577	267	579	1,031	123
33	Supplies and purchases for resale.....do....	21,295	2,406	1,309	1,130	2,313	2,118	594
34	Minerals received for preparation.....do....	874	...	...	...	...	176	...
35	Purchased fuel.....do....	9,605	720	437	218	691	1,090	428
36	Purchased electricity.....do....	3,585	390	227	188	390	264	91
37	Contract work.....do....	3,864	1,181	814	801	943	830	196
38	Purchased machinery installed.....do....	9,344	1,009	832	758	994	1,695	175
39	Capital expenditures, total.....do....	13,197	1,083	923	823	1,036	2,107	329
40	Development and exploration of mineral property.....do....	753	125	115	90	104	189	73
41	Preparation plant and other construction.....do....	3,485	4	3	1	1	153	14
42	New machinery and equipment.....do....	8,498	946	800	729	926	1,562	179
43	Used plant and equipment.....do....	461	8	5	3	5	203	63
44	Energy used.....million kwh equivalent..	5,477	576	380	177	569	382	187
45	Coal.....1,000 short tons..	92	...	...	...	...	...	...
46	Fuel oil.....1,000 barrels..	615	63	37	37	62	100	75
47	Gas.....million cu. ft..	7,885	1,334	915	290	1,334	87	...
48	Other fuels and undistributed <sup>5</sup> .....\$1,000..	3,934	108	71	47	90	697	214
49	Electric energy purchased.....million kwh..	295	31	17	13	31	10	5
50	Electric energy generated and used.....do....	2	...	...	...	...	(D)	...

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Includes data for one combination open-pit and underground mine.<sup>2</sup>Represents the product indicated by the name of the industry.<sup>3</sup>Includes crude bentonite produced in other industries, amounting to less than one percent of the total shown.



## and Selected Types of Operation: 1958

1453—Fire clay—Continued			1454—Fuller's earth		1455—Kaolin and ball clay				1456—Feldspar		1457— Magnesite and brucite	1459—Clay and related minerals, nec.			
Producing open-pit mines			United States, all opera- tions	South Atlantic	United States, all opera- tions	Georgia	South Central	Producing open-pit mines with prepara- tion plants	United States, all opera- tions	Producing open-pit mines with prepara- tion plants		United States, all opera- tions	South Atlantic	Producing open-pit mines with prepara- tion plants <sup>1</sup>	
Total	Mines only	Mines with prepara- tion plants													
149	121	28	14	7	53	18	15	43	74	12	4	122	19	58	1
135	118	17	8	1	27	6	9	18	64	2	1	89	9	26	2
14	3	11	4	4	17	6	6	16	9	9	1	33	10	32	3
...	...	...	2	2	9	6	...	9	1	1	2	...	...	...	4
149	121	28	14	7	53	18	15	43	74	12	4	122	19	58	5
28	...	28	11	6	43	14	14	43	12	12	3	58	9	58	6
3,627	2,637	990	285	245	2,580	1,678	403	2,373	439	326	154	4,818	1,244	3,594	7
15,217	9,751	5,466	8,692	7,763	42,434	29,081	5,621	40,027	6,889	6,057	7,270	22,004	7,098	19,489	8
169	...	169	(D)	(D)	(D)	(D)	...	(D)	456	456	...	(D)	...	(D)	9
15,048	9,751	5,297	(D)	(D)	(D)	(D)	5,621	(D)	6,433	5,601	7,270	(D)	7,098	(D)	10
14,217	9,397	4,820	(D)	(D)	(D)	28,743	(D)	39,386	5,772	(D)	7,270	21,741	7,098	19,314	11
831	354	477	(D)	(D)	463	(D)	(D)	(D)	661	(D)	...	(D)	...	(D)	12
11,958	7,651	4,307	5,955	5,482	30,990	20,963	4,503	28,982	4,531	3,985	5,978	13,154	4,493	11,418	13
1,150	692	458	659	597	3,412	2,164	362	3,310	619	454	338	1,713	502	1,462	14
882	507	375	527	477	2,722	1,822	297	2,631	4496	393	267	1,464	422	1,276	15
898	519	379	576	532	2,697	1,811	282	2,601	498	401	295	1,377	435	1,225	16
861	486	375	546	495	2,756	1,837	308	2,666	512	412	295	1,477	399	1,295	17
879	515	364	514	464	2,750	1,832	308	2,661	488	388	164	1,517	414	1,333	18
891	508	383	466	417	2,692	1,815	295	2,599	475	366	315	1,472	444	1,258	19
158	82	76	125	117	672	335	62	667	71	61	70	198	71	180	20
110	103	7	7	3	18	7	3	12	52	...	1	51	9	6	21
51	47	4	...	...	6	2	2	5	44	...	1	30	3	5	22
1,648	917	731	1,145	1,042	5,675	3,854	649	5,482	1,028	844	428	3,267	988	2,924	23
1,226	917	309	235	220	1,980	1,187	303	1,787	393	219	222	1,015	266	672	24
9	9	...	...	...	26	...	...	...	9	...	...	75	...	3	25
1,120	874	246	146	132	1,712	1,073	231	1,545	359	215	203	889	241	619	26
97	34	63	89	88	242	114	72	242	25	4	19	51	25	50	27
422	...	422	910	822	3,695	2,667	346	3,695	635	625	206	2,252	722	2,252	28
60	58	2	3	3	215	155	22	215	9	8	...	13	9	8	29
7,932	4,643	3,289	5,452	4,812	26,696	18,016	2,637	25,812	4,306	3,630	4,092	16,754	4,688	15,052	30
3,462	1,889	1,573	1,673	1,537	9,719	6,914	864	9,278	1,515	1,204	1,386	5,602	1,528	4,936	31
865	359	506	726	676	4,295	2,056	425	4,262	404	341	539	1,393	516	1,321	32
1,452	997	455	1,754	1,483	8,739	6,348	824	8,533	1,055	885	1,010	4,455	1,419	4,244	33
160	...	160	...	...	...	...	...	...	456	456	...	...	...	...	34
966	593	373	748	643	2,157	1,518	275	2,126	324	251	794	3,772	885	3,473	35
204	70	134	270	249	1,194	894	68	1,173	396	351	220	851	298	819	36
823	735	88	281	224	592	286	181	440	156	142	143	681	42	259	37
1,674	1,113	561	263	219	2,913	2,155	262	2,886	1,277	1,248	114	2,073	699	1,761	38
2,020	1,408	612	579	537	4,151	3,083	492	4,113	1,306	1,261	989	2,982	738	2,485	39
124	120	4	...	...	330	191	46	330	22	17	...	62	6	48	40
151	40	111	256	255	1,053	817	180	1,044	208	204	934	902	101	756	41
1,543	1,125	418	323	282	2,676	2,044	249	2,647	1,053	1,017	55	1,885	592	1,596	42
202	123	79	...	...	92	31	17	92	23	23	...	133	39	85	43
348	157	191	323	282	1,433	1,114	133	1,429	127	103	391	2,245	761	1,954	44
...	...	...	...	...	...	...	...	...	(NA)	(NA)	28	64	55	64	45
100	15	85	36	21	186	137	23	186	(NA)	(NA)	90	140	26	135	46
86	...	86	446	416	2,844	2,360	183	2,844	(NA)	(NA)	...	3,174	785	3,174	47
573	512	61	415	392	482	215	126	473	324	251	1	1,907	119	1,644	48
8	3	5	21	20	120	100	6	118	30	28	22	61	23	56	49
...	...	...	...	...	(D)	(D)	...	(D)	...	...	...	(D)	...	(D)	50

<sup>4</sup>Number of production and development workers for all months was collected for the Feldspar Industry only. For this industry the United States totals for months not shown above are: January, 516; February, 505; April, 510; June, 517; July, 519; September, 473; October, 465; December, 482.

<sup>5</sup>Undistributed fuels costs for all Clay and Related Minerals Industries were approximately \$2,907 thousand, the quantity and cost of individual fuels was not obtained for the Feldspar Industry. For the Fire Clay Industry the cost of fuels not distributed by type was \$488 thousand; for the Fuller's Earth Industry, \$380 thousand, for the Kaolin and Ball Clay Industry, \$140 thousand; and for the Clay and Related Minerals, NEC Industry, \$1,570 thousands.

Table 4A.—Selected Statistics for Establishments Classified by Employment Size, for the United States. 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—						
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees
1452	BENTONITE:								
	Number of establishments.....	41	14	5	7	12	3	...	...
	All employees:								
	Number.....	688	55	39	99	<u>495</u>	(D)	...	...
	Payroll.....\$1,000..	2,885	342	135	391	<u>2,017</u>	(D)	...	...
	Production and development workers:								
	Number.....	543	21	36	84	<u>402</u>	(D)	...	...
	Man-hours.....\$1,000..	1,140	32	74	168	<u>866</u>	(D)	...	...
	Wages.....\$1,000..	1,996	55	117	325	<u>1,499</u>	(D)	...	...
	Value added in mining.....do....	12,220	311	391	1,279	<u>10,239</u>	(D)	...	...
	Value of shipments and receipts.....do....	16,843	491	479	1,754	<u>14,119</u>	(D)	...	...
	Capital expenditures.....do....	1,083	26	16	444	<u>597</u>	(D)	...	...
	Number of producing establishments by type of operation, total.....	40	13	5	7	12	3	...	...
	Mines only (open-pit).....	15	9	3	3	...	...	...	...
	Mines with preparation plants:								
	Open-pit.....	23	4	1	3	12	3	...	...
	Combination open-pit and underground.....	1	...	1	...	...	...	...	...
	Underground.....	1	...	...	1	...	...	...	...
1453	FIRE CLAY:								
	Number of establishments.....	182	92	45	26	15	3	1	...
	All employees:								
	Number.....	1,473	169	297	348	378	<u>281</u>	(D)	...
	Payroll.....\$1,000..	6,020	581	1,162	1,360	1,566	<u>1,351</u>	(D)	...
	Production and development workers:								
	Number.....	1,279	154	255	281	344	<u>245</u>	(D)	...
	Man-hours.....\$1,000..	2,214	243	431	490	628	<u>422</u>	(D)	...
	Wages.....\$1,000..	4,989	517	964	1,071	1,368	<u>1,069</u>	(D)	...
	Value added in mining.....do....	14,540	2,519	3,536	2,790	4,018	<u>1,677</u>	(D)	...
	Value of shipments and receipts.....do....	18,606	3,512	4,262	3,408	5,001	<u>2,423</u>	(D)	...
	Capital expenditures.....do....	2,107	265	999	302	522	<u>19</u>	...	...
	Number of producing establishments by type of operation, total.....	180	92	43	26	15	3	1	...
	Mines only:								
	Open-pit.....	121	72	30	16	3	...	...	...
	Combination open-pit and underground.....	5	2	2	1	...	...	...	...
	Underground.....	23	11	4	3	3	1	1	...
	Mines with preparation plants:								
	Open-pit.....	28	7	6	4	9	2	...	...
	Underground.....	3	...	1	2	...	...	...	...
1454	FULLER'S EARTH								
	Number of establishments.....	14	3	1	4	4	...	1	1
	All employees:								
	Number.....	652	<u>10</u>	(D)	59	<u>583</u>	...	(D)	(D)
	Payroll.....\$1,000..	2,399	<u>242</u>	(D)	(D)	<u>2,157</u>	...	(D)	(D)
	Production and development workers:								
	Number.....	527	<u>58</u>	(D)	(D)	<u>469</u>	...	(D)	(D)
	Man-hours.....\$1,000..	1,145	<u>128</u>	(D)	(D)	<u>1,017</u>	...	(D)	(D)
	Wages.....\$1,000..	1,673	<u>176</u>	(D)	(D)	<u>1,497</u>	...	(D)	(D)
	Value added in mining.....do....	5,955	<u>950</u>	(D)	(D)	<u>5,005</u>	...	(D)	(D)
	Value of shipments and receipts.....do....	8,692	<u>1,530</u>	(D)	(D)	<u>7,162</u>	...	(D)	(D)
	Capital expenditures.....do....	579	<u>89</u>	...	(D)	<u>490</u>	...	(D)	(D)
	Number of producing establishments by type of operation, total.....	14	3	1	4	4	...	1	1
	Open-pit mines only.....	3	2	...	1	...	...	...	...
	Open-pit mines with preparation plants.....	11	1	1	3	4	...	1	1
1455	KAOLIN AND BALL CLAY:								
	Number of establishments.....	53	10	6	11	12	5	5	4
	All employees:								
	Number.....	3,394	20	48	157	447	458	688	1,576
	Payroll.....\$1,000..	14,014	69	133	551	1,737	2,187	2,388	6,949
	Production and development workers:								
	Number.....	2,722	18	41	137	349	301	619	1,257
	Man-hours.....\$1,000..	5,675	31	78	310	728	663	1,242	2,623
	Wages.....\$1,000..	9,719	60	105	441	1,051	1,037	2,000	5,025



Table 4A.—Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—						
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees
1455	KAOLIN AND BALL CLAY—Continued								
	Value added in mining.....\$1,000..	30,990	822	336	2,113	4,277	3,644	5,005	14,793
	Value of shipments and receipts.....do....	42,434	994	398	2,535	5,941	4,582	6,643	21,341
	Capital expenditures.....do....	4,151	28	131	1,058	268	343	614	1,709
	Number of producing establishments by type of operation, total.....	53	10	6	11	12	5	5	4
	Mines only:								
	Open-pit.....	9	8	...	1	...	...	...	...
	Combination open-pit and underground.....	1	...	...	...	...	1	...	...
	Mines with preparation plants (open- pit).....	43	2	6	10	12	4	5	4
1456	FELDSPAR:								
	Number of establishments.....	74	56	4	4	8	1	1	...
	All employees:								
	Number.....	567	82	(D)	57	428	(D)	(D)	...
	Payroll.....\$1,000..	1,919	225	(D)	257	1,437	(D)	(D)	...
	Production and development workers:								
	Number.....	496	80	(D)	43	373	(D)	(D)	...
	Man-hours.....1,000..	1,028	137	(D)	105	786	(D)	(D)	...
	Wages.....\$1,000..	1,515	209	(D)	178	1,128	(D)	(D)	...
	Value added in mining.....do....	4,531	400	(D)	495	3,636	(D)	(D)	...
	Value of shipments and receipts.....do....	6,889	576	(D)	669	5,644	(D)	(D)	...
	Capital expenditures.....do....	1,306	45	(D)	816	445	(D)	(D)	...
	Number of producing establishments by type of operation, total.....	71	53	4	4	8	1	1	...
	Mines only:								
	Open-pit.....	56	52	2	2	...	...	...	...
	Combination open-pit and underground.....	1	...	1	...	...	...	...	...
	Underground.....	2	1	1	...	...	...	...	...
	Mines with preparation plants (open- pit).....	12	...	...	2	8	1	1	...
1457	MAGNESITE AND BRUCITE:								
	Number of producing establishments by type of operation, total.....	4	1	...	...	...	1	2	...
	Open-pit mines only.....	1	1	...	...	...	...	...	...
	Open-pit mines with preparation plants.....	3	...	...	...	...	1	2	...
1459	CLAY AND RELATED MINERALS, NEC:								
	Number of establishments.....	122	60	14	15	25	8	...	...
	All employees:								
	Number.....	1,662	79	97	206	770	510	...	...
	Payroll.....\$1,000..	6,995	290	361	897	3,320	2,127	...	...
	Production and development workers:								
	Number.....	1,464	73	79	185	674	453	...	...
	Man-hours.....1,000..	3,267	139	144	399	1,535	1,050	...	...
	Wages.....\$1,000..	5,602	274	298	767	2,568	1,695	...	...
	Value added in mining.....do....	13,154	883	821	1,730	6,881	2,839	...	...
	Value of shipments and receipts.....do....	22,004	1,406	1,038	3,014	11,156	5,390	...	...
	Capital expenditures.....do....	2,982	395	219	278	1,039	1,051	...	...
	Number of producing establishments by type of operation, total.....	119	57	14	15	25	8	...	...
	Mines only:								
	Open-pit.....	59	47	8	4	...	...	...	...
	Combination open-pit and underground.....	1	1	...	...	...	...	...	...
	Underground.....	1	...	...	...	1	...	...	...
	Mines with preparation plants:								
	Open-pit.....	57	9	6	10	24	8	...	...
	Combination open-pit and underground.....	1	...	...	1	...	...	...	...

## MINERAL INDUSTRIES—INDUSTRY STATISTICS

Table 4B.—Number of Producing Establishments with Preparation Plants Reporting Specified Mineral Preparation Methods, Classified by Employment Size, for the United States: 1958

Ind. code	Industry and mineral preparation method <sup>1</sup>	All establish- ments, total	Establishments with an average of—						
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees
1452	BENTONITE:								
	Number of establishments with preparation plants.....	25	4	2	4	12	3	...	...
	Number of establishments reporting specified preparation method: <sup>2</sup>								
	Crushing, grinding, or pulverizing.....	24	4	1	4	12	3	...	...
	Drying.....	19	2	2	3	10	2	...	...
	Air separating, calcining, screening, washing, and centrifuge.....	8	2	...	2	4	...	...	...
1453	FIRE CLAY:								
	Number of establishments with preparation plants.....	31	7	7	6	9	2	...	...
	Number of establishments reporting specified preparation method: <sup>2</sup>								
	Crushing, grinding, or pulverizing.....	28	6	6	6	8	2	...	...
	Drying.....	10	1	1	3	3	2	...	...
	Air separation.....	7	1	1	1	3	1	...	...
	Calcining.....	4	1	2	...	1	...	...	...
	Screening and washing.....	4	2	1	...	...	1	...	...
1454	FULLER'S EARTH:								
	Number of establishments with preparation plants.....	11	1	1	3	4	...	1	1
	Number of establishments reporting specified preparation method: <sup>2</sup>								
	Crushing, grinding, or pulverizing.....	11	1	1	3	4	...	1	1
	Drying.....	11	1	1	3	4	...	1	1
	Calcining.....	4	...	...	2	1	...	...	...
	Air separation.....	1	...	1	...	...	...	...	...
1455	KAOLIN AND BALL CLAY:								
	Number of establishments with preparation plants.....	43	2	6	10	12	4	5	4
	Number of establishments reporting specified preparation method: <sup>2</sup>								
	Crushing, grinding, or pulverizing.....	39	2	5	9	11	4	4	4
	Drying.....	29	1	...	7	11	2	4	4
	Washing.....	17	...	1	5	3	1	3	4
	Air separation.....	13	...	...	4	5	...	2	2
	Calcining.....	3	1	...	1	...	...	...	1
	Screening, filtering, flotation.....	6	...	...	2	1	1	...	2
1456	FELDSPAR:								
	Number of establishments with preparation plants.....	12	...	...	2	8	1	1	...
	Number of establishments reporting specified preparation method: <sup>2</sup>								
	Crushing, grinding, or pulverizing.....	12	...	...	2	8	1	1	...
	Screening.....	7	...	...	1	4	1	1	...
	Flotation.....	7	...	...	2	3	1	1	...
	Drying.....	6	...	...	1	4	...	1	...
	Air separation.....	5	...	...	...	4	...	1	...
	Washing.....	5	...	...	1	3	...	1	...
1459	CLAY AND RELATED MINERALS, NEC:								
	Number of establishments with preparation plants.....	58	9	6	11	24	8	...	...
	Number of establishments reporting specified preparation method: <sup>2</sup>								
	Crushing, grinding, or pulverizing.....	46	8	4	8	19	7	...	...
	Calcining.....	38	2	3	9	19	5	...	...
	Bloating.....	25	...	2	6	10	7	...	...
	Drying.....	15	3	2	2	6	2	...	...
	Air separation.....	5	1	...	...	3	1	...	...
	Screening.....	4	...	1	1	1	1	...	...
	Washing.....	4	...	1	...	2	1	...	...

<sup>1</sup>For Industry 1457—Magnesite and brucite, the three establishments with preparation plants all reported crushing and calcining methods.<sup>2</sup>Some establishments reported more than one preparation method used and are included in the line for each method reported.



Table 5.—Industry-Product Analysis, Summary of Industry Shipments and Receipts and Net Shipments of Primary Products for the United States: 1958 and 1954

Ind. code	Industry and year	Value of shipments and receipts of establishments classified in the industry					Value of net shipments of primary products of the industry shipped by establishments in all industries		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing (\$1,000)	Total produced in all industries	Produced in this industry	Produced in other industries
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1452	Bentonite.....1958..	16,843	16,603	(D)	(D)	...	23,207	<sup>1</sup> 16,505	<sup>2</sup> 6,702
	1954..	21,830	(D)	(D)	(D)	...	21,157	(D)	(D)
1453	Fire clay.....1958..	18,606	17,735	632	230	9	<sup>3</sup> 33,497	17,559	<sup>3</sup> 15,938
	1954..	22,206	20,808	(D)	287	(D)	<sup>3</sup> 31,179	20,648	<sup>3</sup> 10,531
1454	Fuller's earth.....1958..	8,692	(D)	(D)	...	(D)	6,778	6,778	...
	1954..	6,012	(D)	(D)	...	...	6,029	(D)	(D)
1455	Kaolin and ball clay.....1958..	42,434	(D)	463	...	(D)	47,664	(D)	(D)
	1954..	31,892	31,160	732	....	...	31,170	31,146	24
1456	Feldspar.....1958..	6,889	6,228	661	...	...	7,018	5,772	1,246
	1954..	6,669	6,254	415	...	...	7,478	5,824	1,654
1457	Magnesite and brucite.....1958..	7,270	7,270	...	...	...	7,270	7,270	...
	1954..	1,655	1,655	...	...	...	1,655	1,655	...
1459	Clay and related minerals, nec.....1958..	22,004	21,741	(D)	...	(D)	<sup>4</sup> 68,202	21,741	<sup>4</sup> 46,461
	1954..	13,504	(D)	(D)	...	(D)	<sup>4</sup> 39,848	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes crude bentonite produced in other mineral industries, amounting to less than one percent of the total shown.<sup>2</sup>Excludes crude bentonite.<sup>3</sup>Includes the estimated value of fire clay produced and used in the same establishment in the manufacture of clay products.<sup>4</sup>Includes the estimated value of common clay and shale produced and used in the same establishment in the manufacture of cement and clay products.

Table 6A.—Primary Products of the Clay and Related Minerals Industries Produced in All Industries, by Region and State: 1958 and 1954

Product, region, and State	1958		1954	
	Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
BENTONITE				
United States:				
Crude bentonite prepared in the mineral industries <sup>1</sup> .....	1,309	xxx	1,209	xxx
Crude bentonite net shipments <sup>2</sup> .....	396	1,394	21,477	21,157
Prepared bentonite shipped, including interplant transfers, total.....	1,343	21,813		
Prepared in the bentonite industry.....	1,162	15,111	(NA)	(NA)
Prepared in other industries.....	181	6,702	(NA)	(NA)
West:				
Crude bentonite prepared in the mineral industries (all mined and prepared at same establishment).....	865	xxx	739	xxx
Crude bentonite shipments including interplant transfers.....	236	646	(NA)	(NA)
Wyoming:				
Crude bentonite prepared in the mineral industries.....	814	{ xxx (D)	(NA)	(NA)
Crude bentonite shipments including interplant transfers.....			(NA)	(NA)
FIRE CLAY				
United States:				
Crude fire clay mined and used or shipped, total.....	8,724	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making clay products <sup>3</sup> .....	4,343	xxx	3,957	xxx
In making prepared clay.....	864	xxx	1,980	xxx
Received in the fire clay industry from other establishments for preparation	42	176	62	160
Shipments including interplant transfers.....	3,517	13,389	4,836	21,803
Prepared fire clay shipments including interplant transfers.....	1,033	6,070		
Middle Atlantic:				
Crude fire clay, total.....	1,631	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making clay products.....	797	xxx	811	xxx
In making prepared clay.....	122	xxx	4607	xxx
Shipments including interplant transfers.....	712	3,232	5861	56,128
Prepared fire clay shipments including interplant transfers.....	217	1,423		
Pennsylvania:				
Crude fire clay, total.....	1,520	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making clay products.....	748	xxx	720	xxx
In making prepared clay.....	74	xxx	(NA)	xxx
Shipments including interplant transfers.....	698	3,135	5815	55,436
Prepared fire clay shipments including interplant transfers.....	174	932		
North Central:				
Crude fire clay, total.....	4,552	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making clay products.....	2,142	xxx	1,873	xxx
In making prepared clay.....	553	xxx	41,126	xxx
Shipments including interplant transfers.....	1,857	6,643	52,482	511,797
Prepared fire clay shipments including interplant transfers.....	597	3,526		
East North Central:				
Crude fire clay.....	3,087	xxx	(NA)	xxx
Crude and prepared fire clay shipments including interplant transfers.....	1,305	5,149	(NA)	(NA)
Ohio:				
Crude fire clay.....	2,363	xxx	62,442	xxx
Crude and prepared fire clay shipments including interplant transfers.....	1,005	4,453	51,437	57,565
West North Central:				
Crude fire clay.....	1,465	xxx	(NA)	xxx
Crude and prepared fire clay shipments including interplant transfers.....	1,149	5,030	(NA)	(NA)
Missouri:				
Crude fire clay.....	1,298	xxx	61,080	xxx
South:				
Crude fire clay, total.....	1,498	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making clay products.....	902	xxx	1,074	xxx
In making prepared clay.....	170	xxx	165	xxx
Shipments including interplant transfers.....	426	2,386	5442	52,564
Prepared fire clay shipments including interplant transfers.....	170	625		
South Atlantic;				
Crude fire clay.....	431	xxx	(NA)	xxx

See footnotes at end of table.



Table 6A.—Primary Products of the Clay and Related Minerals Industries Produced in All Industries, by Region and State: 1958 and 1954—Continued

Product, region, and State	1958		1954	
	Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
FIRE CLAY--Continued				
South--Continued				
East South Central:				
Crude fire clay.....	519	xxx	(NA)	xxx
Kentucky:				
Crude fire clay, total.....	323	xxx	(NA)	xxx
Mined and used in the same establishment in making clay products.....	30	xxx	(D)	xxx
Shipments including interplant transfers.....	293	1,950	<sup>5</sup> 183	<sup>5</sup> 1,105
West South Central:				
Crude fire clay.....	548	xxx	(NA)	xxx
West:				
Crude fire clay, total.....	1,043	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making clay products.....	502	xxx	199	xxx
In making prepared clay.....	19	xxx	<sup>4</sup> 144	xxx
Shipments including interplant transfers.....	522	1,128	<sup>5</sup> 652	<sup>5</sup> 1,798
Prepared fire clay shipments including interplant transfers.....	49	496		
Mountain:				
Crude fire clay.....	325	xxx	(NA)	xxx
Crude and prepared fire clay shipments including interplant transfers.....	191	573	(NA)	(NA)
Pacific:				
Crude fire clay.....	718	xxx	(NA)	xxx
Crude and prepared fire clay shipments including interplant transfers.....	380	1,051	(NA)	(NA)
United States:				
Crude fuller's earth prepared <sup>1</sup> .....	468	xxx	449	xxx
Net shipments of fuller's earth <sup>2</sup> .....	285	6,778	311	6,029
South Atlantic:				
Crude fuller's earth prepared <sup>1</sup> .....	380	xxx	395	xxx
Net shipments of fuller's earth <sup>2</sup> .....	245	(D)	<sup>7</sup> 258	<sup>7</sup> 5,362
KAOLIN AND BALL CLAY				
United States:				
Crude kaolin and ball clay:				
Prepared in the mineral industries <sup>1</sup> .....	2,730	xxx	2,292	xxx
Net shipments <sup>2</sup> .....	314	3,066	2,115	31,170
Prepared kaolin and ball clay shipped, including interplant transfers.....	2,311	44,598		
South Atlantic:				
South Carolina:				
Crude kaolin and ball clay:				
Prepared in the mineral industries <sup>1</sup> .....	364	xxx	362	xxx
Net shipments <sup>2</sup> .....	...	...	<sup>8</sup> 220	<sup>8</sup> 4,104
Prepared kaolin and ball clay shipped, including interplant transfers.....	344	4,607	<sup>8</sup> 1,279	<sup>8</sup> 20,021
Georgia:				
Crude kaolin and ball clay:				
Prepared in the mineral industries <sup>1</sup> .....	1,919	xxx	1,654	xxx
Net shipments <sup>2</sup> .....	145	855	<sup>8</sup> 1,279	<sup>8</sup> 20,021
Prepared kaolin and ball clay shipped, including interplant transfers.....	1,533	<sup>7</sup> 27,888		
South Central:				
Crude kaolin and ball clay:				
Prepared in the mineral industries <sup>1</sup> .....	369	xxx	(D)	xxx
Net shipments <sup>2</sup> .....	73	655	<sup>8</sup> 327	<sup>8</sup> 4,408
Prepared kaolin and ball clay shipped, including interplant transfers	330	4,868		
Tennessee:				
Crude kaolin and ball clay:				
Prepared in the mineral industries <sup>1</sup> .....	204	xxx	(D)	xxx
Net shipments <sup>2</sup> .....	244	(D)	<sup>8</sup> 183	<sup>8</sup> 2,458
Prepared kaolin and ball clay shipped, including interplant transfers.....		2,873		
FELDSPAR				
United States:				
Crude feldspar:				
Produced.....	506	xxx	711	xxx
Mined and prepared in the same establishment.....	377	xxx	552	xxx
Received in the feldspar industry from other establishments for preparation	56	456	62	430
Shipments including interplant transfers.....	120	866	99	742
Prepared feldspar:				
Shipped in the mineral industries, including interplant transfers.....	382	5,422	350	5,233
Shipped in the manufacturing industries, including interplant transfers....	83	1,186	90	1,503
South:				
Crude feldspar:				
Produced.....	305	xxx	(NA)	xxx
Prepared <sup>1</sup> .....	289	xxx	493	xxx
Prepared feldspar shipped in both mineral and manufacturing industries, including interplant transfers.....	292	4,149	(NA)	(NA)

See footnotes at end of table.

Table 6A.—Primary Products of the Clay and Related Minerals Industries Produced in All Industries, by Region and State: 1958 and 1954—Continued

Product, region, and State	1958		1954	
	Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
MAGNESITE AND BRUCITE				
United States:				
Produced <sup>10</sup> .....	508	xxx	416	xxx
Shipments, including interplant transfers <sup>11</sup> .....	154	7,270	337	1,655
CLAY AND RELATED MINERALS, NEC				
United States:				
Crude common clay and shale, total.....	31,683	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making cement and clay products <sup>12</sup> .....	24,821	xxx	25,803	xxx
In making prepared clay.....	4,818	xxx	132,892	xxx
Shipments, including interplant transfers.....	2,044	3,034	4,560	11,592
Prepared common clay and shale shipments, including interplant transfers, total	3,649	26,191		
Prepared in the clay and related minerals, nec, industry.....	3,339	16,808	(NA)	(NA)
Prepared in other industries.....	310	9,383	(NA)	(NA)
Aplite, kyanite, laterite, and olivine:				
Mined and used in the same establishment in making prepared materials.....	331	xxx	(13)	xxx
Shipments, including interplant transfers, crude and prepared.....	234	2,777	126	1,965
New England:				
Crude common clay and shale mined and used in the same establishment				
in making clay products <sup>14</sup> .....	389	xxx	310	xxx
Middle Atlantic:				
Crude common clay and shale, total.....	3,460	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making cement and clay products.....	3,003	xxx	3,098	xxx
In making prepared clay.....	267	xxx	(D)	xxx
Shipments, including interplant transfers.....	190	316	15549	151,901
Prepared common clay and shale shipments, including interplant transfers.....	216	1,042		
New York:				
Crude common clay and shale.....	1,079	xxx	161,172	xxx
Pennsylvania:				
Crude common clay and shale.....	1,764	xxx	161,859	xxx
East North Central:				
Crude common clay and shale, total.....	7,345	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making cement and clay products.....	6,126	xxx	6,831	xxx
In making prepared clay.....	636	xxx	194	...
Shipments, including interplant transfers.....	583	720	15683	151,333
Prepared common clay and shale shipments, including interplant transfers.....	526	2,918		
Ohio:				
Crude common clay and shale.....	3,048	xxx	182,696	xxx
Illinois:				
Crude common clay and shale, total.....	1,789	xxx	161,854	xxx
Mined and used in the same establishment:				
In making cement and clay products.....	1,501	xxx	(D)	xxx
In making prepared clay.....	254	xxx	(NA)	xxx
Shipments, including interplant transfers.....	34	54	(D)	(D)
Prepared common clay and shale shipments, including interplant transfers.....	203	1,003	(D)	(D)
Michigan:				
Crude common clay and shale.....	1,424	xxx	161,766	xxx
West North Central:				
Crude common clay and shale, total.....	2,720	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making cement and clay products.....	2,113	xxx	2,297	xxx
In making prepared clay.....	384	xxx	340	xxx
Shipments, including interplant transfers.....	223	308	15412	151,636
Prepared common clay and shale shipments, including interplant transfers.....	329	2,053		
Missouri:				
Crude common clay and shale.....	891	xxx	815	xxx
Shipments including interplant transfers.....	...	...	16141	16763
South Atlantic:				
Crude common clay and shale, total.....	6,349	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making cement and clay products.....	4,792	xxx	4,970	xxx
In making prepared clay.....	1,052	xxx	13844	xxx
Shipments, including interplant transfers.....	525	737	15597	153,298
Prepared common clay and shale shipments, including interplant transfers.....	963	7,679		

See footnotes at end of table.



Table 6A.—Primary Products of the Clay and Related Minerals Industries Produced in All Industries, by Region and State: 1958 and 1954—Continued

Product, region, and State	1958		1954	
	Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
CLAY AND RELATED MINERALS, NEC--Continued				
South Atlantic--Continued				
Virginia:				
Crude common clay and shale.....	1,408	xxx	<sup>16</sup> 805	xxx
North Carolina:				
Crude common clay and shale.....	2,119	xxx	<sup>16</sup> 1,618	xxx
Georgia:				
Crude common clay and shale.....	1,362	xxx	<sup>16</sup> 1,189	xxx
East South Central:				
Crude common clay and shale, total.....	2,915	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making cement and clay products.....	2,449	xxx	2,150	xxx
In making prepared clay.....	385	xxx	176	xxx
Shipments, including interplant transfers.....	81	233	<sup>15</sup> 365	<sup>15</sup> 841
Prepared common clay and shale shipments, including interplant transfers.....	276	1,306		
Alabama:				
Crude common clay and shale.....	1,264	xxx	<sup>16</sup> 1,215	xxx
West South Central:				
Crude common clay and shale, total.....	5,307	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making cement and clay products.....	3,687	xxx	2,974	xxx
In making prepared clay.....	1,505	xxx	600	xxx
Shipments, including interplant transfers.....	115	76	<sup>15</sup> 584	<sup>15</sup> 2,284
Prepared common clay and shale shipments, including interplant transfers.....	792	4,003		
Louisiana:				
Crude common clay and shale.....	1,050	xxx	<sup>16</sup> 800	xxx
Texas:				
Crude common clay and shale.....	3,336	xxx	<sup>16</sup> 2,073	xxx
Mined and used in the same establishment:				
In making cement and clay products.....	2,277	xxx	(D)	xxx
In making prepared clay.....	1,058	xxx	(NA)	xxx
Shipments, including interplant transfers, crude and prepared.....	455	2,444	(D)	(D)
Mountain:				
Crude common clay and shale, total.....	888	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making cement and clay products.....	525	xxx	991	xxx
In making prepared clay.....	193	xxx	(D)	xxx
Shipments, including interplant transfers.....	170	463	<sup>15</sup> 272	<sup>15</sup> 537
Prepared common clay and shale shipments, including interplant transfers.....	166	1,035		
Pacific:				
Crude common clay and shale, total.....	2,310	xxx	(NA)	xxx
Mined and used in the same establishment:				
In making cement and clay products.....	1,737	xxx	2,185	xxx
In making prepared clay.....	374	xxx	<sup>16</sup> 281	xxx
Shipments, including interplant transfers.....	199	181	<sup>15</sup> 542	<sup>15</sup> 1,656
Prepared common clay and shale shipments, including interplant transfers.....	381	8,155		
California:				
Crude common clay and shale.....	1,947	xxx	<sup>16</sup> 2,256	xxx

D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>Represents material mined and prepared at the same establishment and material received from other establishments for preparation. <sup>2</sup>Represents gross shipments less receipts from other establishments of crude materials for preparation. <sup>3</sup>Represents fire clay used in making brick, tile, clay refractories, other structural clay products, and pottery and related products. <sup>4</sup>Includes clay received from other establishments for preparation. <sup>5</sup>Represents shipments of both crude and prepared fire clay by the Fire Clay Industry and by mines operated as parts of manufacturing establishments. The value figure includes the value of secondary products and services of establishments classified in the Fire Clay Industry; for the United States as a whole the value of such secondary products and services was \$1,398 thousand. <sup>6</sup>Represents fire clay mined and used in the same establishment in making clay products plus shipments of crude and prepared fire clay. <sup>7</sup>Excludes any fuller's earth produced outside the Fuller's Earth Industry. <sup>8</sup>Excludes any kaolin and ball clay produced outside the Kaolin and Ball Clay Industry. <sup>9</sup>Includes the value of secondary products and services of establishments classified in the Kaolin and Ball Clay Industry; for the United States as a whole the value of such secondary products and services was \$732 thousand. See also footnote 8. <sup>10</sup>For 1958, represents crude material mined and prepared at same establishment plus crude material mined and shipped; no magnesite or brucite was reported received by establishments in this industry for preparation. For 1954, represents production of crude material. <sup>11</sup>For 1958, represents shipments of both crude and calcined material; less than one percent of these shipments represented crude material. For 1954, represents net shipments of crude material, and transfers of crude or crushed and ground material to associated calcining plants. <sup>12</sup>Includes common clay and shale used in making such clay products as brick, tile, clay refractories, other structural clay products, and pottery and related products. <sup>13</sup>Figures for apatite, kyanite, and olivine prepared are included with those for common clay and shale prepared. Includes material received from other establishments for preparation, all reported in the Middle Atlantic and New England. <sup>14</sup>No other common clay or shale was reported produced in New England in 1958. For 1954, 83,000 tons of primary products of the Clay and Related Minerals, NEC, Industry, valued at \$265 thousand, were reported shipped in New England by this industry and manufacturing establishments including common clay and shale mines as part of the establishment. <sup>15</sup>Represents shipments of both crude and prepared common clay and shale, and apatite, olivine, and kyanite concentrates by the Clay and Related Minerals, NEC, Industry and by mines operated as parts of manufacturing establishments. The value figure includes the value of secondary products and services of establishments classified in the Clay and Related Minerals, NEC, Industry, for the United States as a whole the value of such secondary products and services was about 5 percent of the total value of shipments of the industry. <sup>16</sup>Represents material mined and used in the same establishment in making clay products plus shipments of crude and prepared material described in footnote 15.

Table 6B.—Shipments of Selected Primary Products of the Clay and Related Minerals Industries  
Distributed by Value Per Ton: 1958

Product and average value per ton f.o.b. mine or plant <sup>1</sup>	Quantity shipped		Value of shipments	
	Short tons (1,000)	Percent of total quantity	Value (\$1,000)	Percent of total value
<b>BENTONITE</b>				
Prepared bentonite, total <sup>2</sup> .....	1,162	100.0	15,111	100.0
\$6.15-\$9.99.....	286	24.6	2,112	14.0
\$12.50-\$14.09.....	543	46.7	7,033	46.5
\$14.10-\$17.89.....	263	22.7	4,306	28.5
\$17.90 and over.....	70	6.0	1,660	11.0
<b>FIRE CLAY</b>				
Crude fire clay, total.....	3,517	100.0	13,389	100.0
\$0.61-\$0.99.....	132	3.7	110	0.8
\$1.00-\$1.24.....	321	9.1	377	2.8
\$1.25-\$1.58.....	507	14.4	702	5.2
\$1.59-\$2.03.....	498	14.2	934	7.0
\$2.04-\$2.28.....	333	9.5	714	5.3
\$2.29-\$2.93.....	348	9.9	936	7.0
\$2.94-\$3.33.....	240	6.8	735	5.5
\$3.34-\$3.78.....	96	2.7	347	2.6
\$3.79-\$4.83.....	148	4.2	636	4.8
\$4.84-\$5.43.....	424	12.1	2,123	15.9
\$5.44 and over.....	470	13.4	5,775	43.1
Prepared fire clay, total <sup>3</sup> .....	835	100.0	4,801	100.0
Less than \$3.35.....	28	3.4	45	0.9
\$3.35-\$4.83.....	275	32.9	991	20.7
\$4.84-\$6.13.....	260	31.1	1,475	30.7
\$6.14 and over.....	272	32.6	2,292	47.7
<b>FULLER'S EARTH</b>				
Net shipments of fuller's earth, total.....	285	100.0	6,778	100.0
Less than \$15.91.....	50	17.5	779	11.5
\$15.91-\$22.89.....	98	34.4	1,980	29.2
\$22.90 and over.....	137	48.1	4,019	59.3
<b>KAOLIN AND BALL CLAY</b>				
Crude kaolin and ball clay net shipments, total.....	314	100.0	3,066	100.0
Less than \$6.15.....	128	40.8	384	12.5
\$6.15-\$9.98.....	59	18.8	528	17.2
\$9.99 and over.....	127	40.4	2,154	70.3
Prepared kaolin and ball clay, total.....	2,311	100.0	44,598	100.0
\$5.45-\$11.10.....	176	7.6	1,537	3.4
\$11.10-\$14.09.....	574	24.9	7,477	16.8
\$14.10-\$17.89.....	583	25.2	9,746	21.9
\$17.90 and over.....	978	42.3	25,838	57.9
<b>FELDSPAR</b>				
Crude feldspar net shipments, total.....	120	100.0	866	100.0
\$2.95-\$6.13.....	17	14.2	56	6.5
\$6.14-\$6.93.....	42	35.0	284	32.8
\$6.94-\$7.83.....	48	40.0	354	40.9
\$7.84 and over.....	13	10.8	172	19.8
Prepared feldspar, total <sup>3</sup> .....	382	100.0	5,422	100.0
\$8.85-\$15.89.....	268	70.2	3,088	57.0
\$17.90 and over.....	114	29.8	2,334	43.0

See footnotes at end of table.



Table 6B.—Shipments of Selected Primary Products of the Clay and Related Minerals Industries  
Distributed by Value Per Ton: 1958—Continued

Product and average value per ton f.o.b. mine or plant <sup>1</sup>	Quantity shipped		Value of shipments	
	Short tons (1,000)	Percent of total quantity	Value (\$1,000)	Percent of total value
CLAY AND RELATED MINERALS, NEC				
Crude common clay and shale, total.....	2,044	100.0	3,034	100.0
Less than \$0.49.....	295	14.5	95	3.1
\$0.49-\$0.99.....	307	15.0	226	7.5
\$1.00-\$1.10.....	228	11.2	232	7.7
\$1.11-\$1.40.....	485	23.7	627	20.7
\$1.41-\$1.78.....	172	8.4	264	8.7
\$1.79-\$2.03.....	164	8.0	326	10.7
\$2.04-\$2.93.....	268	13.1	671	22.1
\$3.79 and over.....	125	6.1	593	19.5
Prepared common clay and shale, total <sup>3</sup> .....	3,379	100.0	17,124	100.0
Less than \$3.35.....	324	9.6	855	5.0
\$3.79-\$4.28.....	597	17.7	2,354	13.7
\$4.29-\$4.83.....	585	17.3	2,655	15.5
\$4.84-\$5.43.....	651	19.3	3,328	19.4
\$5.44-\$6.13.....	847	25.0	4,876	28.5
\$6.14-\$7.83.....	222	6.6	1,534	9.0
\$7.84 and over.....	153	4.5	1,522	8.9

<sup>1</sup>The "average values" are based on the entire shipments of the specified product by each establishment. Thus they are representative of varied average prices among establishments but not variations within an establishment.

<sup>2</sup>Represents material prepared in the Bentonite Industry only.

<sup>3</sup>Represents material prepared in the mineral industries only.

Table 7.—Supplies Used in the Clay and Related Minerals Industries: 1958 and 1954

(Detailed figures for the quantity and cost of supplies used were not obtained for these industries. For the total cost of supplies used see table 3. For the quantity and cost of minerals received for preparation, see table 6A. For the quantity and total cost of purchased fuels and electricity used, see table 3.)

Table 8.—General Statistics for Establishments in the United States Classified by Output per Man-hour, by Selected Types of Operation: 1958

Ind. code	Industry, type of operation, and tons per man-hour <sup>1</sup>	Establishments, total	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1452	BENTONITE:									
	All establishments, total.....	41	688	2,885	543	1,140	1,996	12,220	16,843	1,083
	Less than 0.20.....	2								
	0.20-0.39.....	3	63	206	53	101	163	607	780	31
	0.40-0.59.....	1								
	0.80-0.99.....	2								
	1.00-1.19.....	3	200	748	169	349	582	3,156	4,089	495
	1.20-1.49.....	2								
	1.50-1.99.....	2								
	2.00-2.99.....	2	98	467	91	188	413	2,026	2,781	81
	3.00-4.99.....	1								
	Undistributed <sup>2</sup> .....	23	327	1,464	230	502	838	6,431	9,193	476
1453	FIRE CLAY:									
	All establishments, total.....	182	1,473	6,020	1,279	2,214	4,989	14,540	18,606	2,107
	Less than 0.40.....	6	115	473	94	188	365	572	702	19
	0.40-0.59.....	12	263	1,014	245	355	928	1,071	1,699	37
	0.60-0.79.....	7	77	314	61	105	244	570	662	183
	0.80-0.99.....	8	90	345	86	147	331	567	883	56
	1.00-1.19.....	5	42	182	37	65	159	417	496	101
	1.20-1.39.....	7	84	336	68	107	279	624	777	23
	1.50-1.79.....	12	173	752	161	313	634	1,771	2,374	249
	1.80-1.99.....	5	35	103	31	48	85	186	272	10
	2.00-2.39.....	4	88	496	67	133	324	1,138	1,478	17
	2.40-2.79.....	7								
	2.80-2.99.....	2	122	546	110	227	475	2,038	2,348	216
	3.00-3.99.....	4	16	63	16	29	63	221	307	15
	4.00-4.99.....	6	48	206	38	65	156	609	720	93
	5.00-5.99.....	2								
	6.00-6.99.....	5	26	85	23	39	79	408	474	17
	7.00-7.99.....	1								
	10.00 and over.....	4	8	24	7	13	21	397	416	27
	Undistributed <sup>2</sup> .....	85	286	1,081	235	380	846	3,951	4,998	1,044
	Producing open-pit mines without preparation plants, total.....	121	589	2,248	507	917	1,889	7,651	9,751	1,408
	Less than 0.60.....	5	27	123	22	44	101	15	121	26
	0.60-0.99.....	2								
	1.00-1.39.....	4	50	229	37	88	195	431	520	25
	1.50-1.79.....	9								
	1.80-1.99.....	3	137	474	129	237	430	1,190	1,655	200
	2.00-2.39.....	2								
	2.40-2.79.....	3								
	2.80-2.99.....	2	118	487	106	203	431	1,615	2,032	133
	3.00-3.99.....	4								
	4.00-4.99.....	5								
	5.00-7.99.....	8	26	85	23	39	79	407	474	17
	10.00 and over.....	4	8	24	7	13	21	396	416	27
	Undistributed <sup>2</sup> .....	70	223	826	183	293	632	3,597	4,533	980
1454	FULLER'S EARTH:									
	All establishments, total.....	14	652	2,399	527	1,145	1,673	5,955	8,692	579
	0.10-0.29.....	4	185	496	178	347	453	1,291	1,611	133
	0.30-0.39.....	3								
	0.50-0.69.....	2	355	1,468	288	679	1,055	3,755	5,679	364
	Undistributed <sup>2</sup> .....	5	112	435	61	119	165	909	1,402	82
1455	KAOLIN AND BALL CLAY:									
	All establishments, total.....	53	3,394	14,014	2,722	5,675	9,719	30,990	42,434	4,151
	Less than 0.10.....	3	147	378	136	239	342	558	782	175
	0.10-0.29.....	4	239	895	220	465	782	1,881	2,456	106
	0.30-0.39.....	9	1,329	5,457	1,134	2,372	4,189	10,553	15,336	1,000
	0.40-0.49.....	4	386	1,477	301	622	1,019	4,894	6,237	664
	0.50-0.59.....	3	438	1,910	378	808	1,493	4,620	6,530	679
	0.60-0.69.....	4	209	875	176	365	669	2,080	3,045	175
	0.70-0.89.....	7	204	743	174	373	598	2,746	3,837	140
	1.50-1.99.....	1								
	2.00-2.99.....	1	17	69	17	30	69	1,011	1,074	46
	3.00-6.99.....	2								
	Undistributed <sup>2</sup> .....	15	425	2,210	186	401	558	2,647	3,137	1,166
1456	FELDSPAR:									
	All establishments, total.....	74	567	1,919	496	1,028	1,515	4,531	6,889	1,306
	0.20-0.39.....	11	247	816	216	479	642	1,580	2,469	917
	0.40-0.59.....	5	128	448	111	216	370	1,280	1,849	340
	0.60 and over.....	5	66	260	53	118	186	662	1,052	7
	Undistributed <sup>2</sup> .....	53	126	395	116	215	317	1,009	1,519	42

See footnotes at end of table.



Table 8.—General Statistics for Establishments in the United States Classified by Output per Man-hour, by Selected Types of Operations: 1958—Continued

Ind. code	Industry, type of operation, and tons per man-hour <sup>1</sup>	Estab-lish-ments, total	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1459	CLAY AND RELATED MINERALS, NEC: All establishments, total.....	122	1,662	6,995	1,464	3,267	5,602	13,154	22,004	2,982
	Less than 0.20.....	5	208	621	193	418	476	1,087	1,432	288
	0.20-0.59.....	4	56	221	49	96	173	204	412	382
	0.60-0.79.....	3	107	513	95	223	432	503	897	633
	0.80-0.99.....	9	207	845	189	412	743	1,192	2,266	110
	1.00-1.19.....	9	276	1,244	231	535	957	1,702	3,141	165
	1.20-1.49.....	6	161	621	137	301	465	1,402	2,262	199
	1.50-1.99.....	10	259	1,197	229	539	943	2,628	4,390	403
	2.00-2.99.....	9	150	742	130	307	584	1,973	3,283	206
	3.00-6.99.....	7	32	132	28	45	123	318	365	54
	7.00 and over.....	3	15	81	13	26	68	352	447	45
	Undistributed <sup>2</sup> .....	57	191	778	170	365	638	1,793	3,109	497

<sup>1</sup>Represents short tons of primary products of the industry shipped per man-hour worked by production and development workers.<sup>2</sup>Represents nonproducing establishments and establishments with no production or development worker man-hours, with man-hours spent on exploration or development work amounting to 30 percent or more of total man-hours of production or development workers, with cost of contract work amounting to 30 percent or more of production and development worker wages, or with number of working proprietors amounting to 30 percent or more of the number of production and development workers. Also, includes figures for the number and payroll of employees at separately reported central offices and related facilities.

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Regions: 1958

Ind. code	Industry, region, and ratio of payroll to value added in mining <sup>1</sup>	Estab-lish-ments, total	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expendi-tures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1452	BENTONITE:									
	United States, total.....	41	688	2,885	543	1,140	1,996	12,220	16,843	1,083
	Less than 0.19.....	10	252	969	209	460	757	7,325	9,597	829
	0.20-0.29.....	10	187	757	153	310	557	3,076	4,149	95
	0.30-0.49.....	7	93	365	83	162	333	1,046	1,672	67
	0.50 and over.....	8	123	510	98	208	349	634	1,145	78
	Undistributed <sup>2</sup> .....	6	33	284	...	...	...	139	280	14
	West, total.....	25	343	1,693	251	554	1,116	7,640	10,336	923
	Less than 0.19.....	6	156	677	122	284	517	5,426	7,282	803
	0.20-0.29.....	6	57	258	41	87	174	945	1,148	18
	0.30-0.59.....	5	83	416	75	153	374	1,086	1,582	72
	0.80-0.89.....	1								
	1.00 and over.....	1	47	342	13	30	51	183	324	30
	Undistributed <sup>2</sup> .....	6								
1453	FIRE CLAY:									
	United States, total.....	182	1,473	6,020	1,279	2,214	4,989	14,540	18,606	2,107
	Less than 0.10.....	6	18	70	12	21	40	1,192	1,275	52
	0.10-0.19.....	18	89	353	82	144	318	2,584	2,860	122
	0.20-0.29.....	30	199	697	183	325	634	2,783	3,323	248
	0.30-0.39.....	19	157	546	138	227	463	1,493	1,776	938
	0.40-0.49.....	15	156	759	119	220	551	1,724	1,978	354
	0.50-0.59.....	14	142	582	122	220	471	1,094	1,398	58
	0.60-0.69.....	17	141	641	112	175	453	1,009	1,318	94
	0.70-0.79.....	7	134	526	126	209	506	712	1,203	32
	0.80-0.99.....	10	288	1,242	260	453	1,086	1,389	2,085	27
	1.00 and over.....	19	105	418	90	154	330	284	416	59
	Undistributed <sup>2</sup> .....	27	44	186	35	66	137	276	974	123
	Middle Atlantic, total.....	46	457	1,926	387	683	1,582	3,603	4,626	1,097
	Less than 0.29.....	6	31	135	26	43	116	810	929	9
	0.30-0.39.....	8	81	325	67	128	250	879	1,006	907
	0.40-0.69.....	10	76	339	60	115	266	651	774	134
	0.70-0.79.....	6	91	351	83	123	331	482	703	7
	0.80 and over.....	10	161	717	136	251	568	773	1,080	12
	Undistributed <sup>2</sup> .....	6	17	59	15	23	51	8	134	28
	East North Central, total.....	33	282	1,359	231	421	993	3,866	4,776	439
	Less than 0.19.....	6	38	158	36	69	148	1,352	1,492	77
	0.20-0.39.....	4	34	116	32	41	111	379	459	8
	0.40-0.59.....	7	98	489	78	152	336	1,047	1,258	188
	0.60 and over.....	11	109	567	83	152	377	836	1,102	100
	Undistributed <sup>2</sup> .....	5	3	29	2	7	21	252	465	66

See footnotes at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Regions: 1958--Continued

Ind. code	Industry, region, and ratio of payroll to value added in mining <sup>1</sup>	Estab-lish-ments, total	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1453	FIRE CLAY—Continued									
	West North Central, total.....	46	303	1,108	271	482	985	3,894	5,049	329
	Less than 0.19.....	9	43	173	32	55	118	1,527	1,673	55
	0.20-0.29.....	12	102	361	98	179	351	1,472	1,732	167
	0.30-0.39.....	6	38	113	36	58	111	333	454	...
	0.40-0.69.....	6	38	142	28	41	106	271	376	45
	0.70 and over.....	6	66	259	63	123	253	303	610	35
	Undistributed <sup>2</sup> .....	7	16	60	14	26	46	( <sup>3</sup> )	204	27
	East South Central, total.....	24	296	1,124	269	420	992	1,711	2,291	95
	Less than 0.29.....	8	24	68	23	27	63	350	384	38
	0.30-0.69.....	7	102	346	88	143	301	709	793	34
	0.80 and over.....	6	170	710	158	250	628	652	1,114	23
	Undistributed <sup>2</sup> .....	3								
1454	FULLER'S EARTH:									
	United States, total.....	14	652	2,399	527	1,145	1,673	5,955	8,692	579
	0.10-0.29.....	3	32	119	27	68	99	726	1,027	59
	0.30-0.39.....	4	388	1,512	313	728	1,092	3,970	5,780	416
	0.40-0.49.....	2	232	768	187	349	482	1,259	1,885	104
	0.50-0.59.....	2								
	0.60-0.79.....	2								
	Undistributed <sup>2</sup> .....	1								
1455	KAOLIN AND BALL CLAY:									
	United States, total.....	53	3,394	14,014	2,722	5,675	9,719	30,990	42,434	4,151
	Less than 0.19.....	9	145	730	90	189	309	3,002	3,147	862
	0.20-0.29.....	7	145	473	132	309	420	1,825	2,518	188
	0.30-0.39.....	15	984	4,111	713	1,518	2,389	9,863	12,849	1,249
	0.40-0.49.....	6	1,159	5,130	999	2,061	3,931	11,079	15,495	877
	0.50-0.59.....	5	183	615	164	322	482	1,152	1,528	218
	0.60-0.79.....	6	753	2,859	606	1,244	2,148	3,960	6,652	749
	0.80-0.89.....	1	25	96	18	32	40	109	245	8
	1.00 and over.....	1								
	Undistributed <sup>2</sup> .....	3								
	South Central, total.....	15	359	1,289	297	649	864	4,503	5,621	492
	0.10-0.29.....	7	128	387	117	229	345	2,171	2,617	152
	0.30-0.39.....	5	199	781	157	381	466	2,169	2,734	329
	0.40 and over.....	3	32	121	23	39	53	163	270	11
1456	FELDSPAR:									
	United States, total.....	74	567	1,919	496	1,028	1,515	4,531	6,889	1,306
	0.10-0.39.....	8	223	781	194	400	607	2,683	3,482	1,165
	0.40-0.49.....	13	30	80	30	51	80	186	236	17
	0.50-0.59.....	13	199	627	177	379	518	1,195	2,299	90
	0.60-0.69.....	5	77	302	60	133	201	441	640	29
	0.80 and over.....	13	36	124	33	61	105	72	178	3
	Undistributed <sup>2</sup> .....	22	2	5	2	4	4	( <sup>3</sup> )	54	2
	South, total.....	27	359	1,121	322	650	902	2,657	4,333	908
	0.30-0.49.....	13	154	489	139	264	379	1,453	2,023	838
	0.50-0.69.....	9	203	629	181	383	520	1,193	2,299	70
	1.00 and over.....	1	2	3	2	3	3	11	11	...
	Undistributed <sup>2</sup> .....	4								
	West, total.....	22	84	379	70	159	288	1,094	1,455	89
	0.20-0.69.....	4	78	360	64	149	270	1,042	1,392	87
	1.00 and over.....	5	6	19	6	10	18	52	63	2
	Undistributed <sup>2</sup> .....	13								
1457	MAGNESITE AND BRUCITE:									
	United States, total.....	4	337	1,925	267	428	1,386	5,978	7,270	989
	0.10-0.19.....	1	337	1,925	267	428	1,386	5,978	7,270	989
	0.20-0.29.....	1								
	0.30-0.39.....	2								

See footnotes at end of table.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Regions: 1958—Continued

Ind. code	Industry, region, and ratio of payroll to value added in mining <sup>1</sup>	Establishments, total	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1459	CLAY AND RELATED MINERALS, NEC:									
	United States, total.....	122	1,662	6,995	1,464	3,267	5,602	13,154	22,004	2,982
	Less than 0.19.....	6	12	54	11	23	45	452	426	303
	0.20-0.29.....	12	256	985	227	533	743	3,548	5,097	291
	0.30-0.39.....	15	159	736	137	329	595	2,048	2,998	151
	0.40-0.49.....	13	225	924	206	447	786	2,150	3,262	215
	0.50-0.59.....	14	221	896	198	426	745	1,661	2,679	179
	0.60-0.69.....	6	134	453	121	232	372	709	1,361	77
	0.70-0.99.....	11	219	1,113	187	425	878	1,352	2,465	335
	1.00 and over.....	18	339	1,584	284	660	1,229	1,142	3,179	1,117
	Undistributed <sup>2</sup> .....	27	97	250	93	192	209	92	537	314
	East North Central, total.....	20	230	1,063	204	473	909	1,846	3,241	793
	0.20-0.59.....	5	84	400	74	176	337	1,114	1,700	113
	0.60-0.89.....	5	73	334	62	140	282	465	988	54
	0.90 and over.....	6	73	329	68	157	290	293	420	601
	Undistributed <sup>2</sup> .....	4	...	...	...	...	...	( <sup>3</sup> )	133	25
	South Atlantic, total.....	19	493	2,044	422	988	1,528	4,493	7,098	738
	Less than 0.29.....	6	170	652	150	355	472	2,327	3,365	263
	0.30-0.49.....	7	146	572	133	299	489	1,329	1,882	81
	0.50-0.59.....	2	177	820	139	334	567	837	1,851	394
	1.00 and over.....	2								
	Undistributed <sup>2</sup> .....	2								
	West South Central, total.....	15	341	1,274	312	722	1,021	2,198	3,684	595
	0.20-0.49.....	6	98	387	90	227	325	1,243	1,780	220
	0.50-0.79.....	5	130	587	113	269	440	917	1,726	55
	1.00 and over.....	2	113	300	109	226	256	38	178	320
	Undistributed <sup>2</sup> .....	2								

<sup>1</sup>Note that in computing these ratios contract employment serving the establishment is excluded. The cost of contract work expressed as a percent of payroll for 1958 was: For Bentonite, 41 percent; for Fire clay, 14 percent; for Fuller's earth, 12 percent; for Kaolin and ball clay, 4 percent; for Feldspar, 8 percent; for Magnesite and brucite, 7 percent; and for Clay and related minerals, nec, 11 percent.

<sup>2</sup>Represents establishments with zero or negative value added; establishments with no employees; and, for number of employees and payroll, figures for separately reported central offices and related facilities.

<sup>3</sup>Not shown since cost of supplies, fuels, purchased electricity, contract work, and purchased machinery installed exceeds value of shipments and receipts plus capital expenditures.

Table 10.—Value Added in Mining per Employee by Size of Establishment for the United States: 1958

Ind. code	Industry and value added per employee class <sup>1</sup>	Number of—		Number of establishments with average employment of—				
		Establishments	Employees	0-19	20-49	50-99	100-249	250-499
1452	BENTONITE, TOTAL.....	41	688	26	12	3	...	...
	Less than \$3,999.....	4	66	3	...	1	...	...
	\$4,000-\$5,999.....	5	54	4	1	...	...	...
	\$6,000-\$7,999.....	4	24	4	...	...	...	...
	\$9,000-\$9,999.....	3	30	3	...	...	...	...
	\$10,000-\$14,999.....	3	66	1	2	...	...	...
	\$15,000-\$17,499.....	5	98	3	1	1	...	...
	\$17,500-\$19,999.....	3	114	1	1	1	...	...
	\$20,000 and over.....	9	206	2	7	...	...	...
	Undistributed <sup>2</sup> .....	5	30	5	...	...	...	...
1453	FIRE CLAY, TOTAL.....	182	1,473	163	15	3	1	...
	Less than \$3,000.....	18	107	18	...	...	...	...
	\$3,000-\$3,999.....	13	75	13	...	...	...	...
	\$4,000-\$4,999.....	10	216	8	...	1	1	...
	\$5,000-\$5,999.....	16	251	11	4	1	...	...
	\$6,000-\$6,999.....	12	47	12	...	...	...	...
	\$7,000-\$7,999.....	9	114	6	3	...	...	...
	\$8,000-\$8,999.....	6	41	5	1	...	...	...
	\$9,000-\$9,999.....	6	70	5	1	...	...	...
	\$10,000-\$12,499.....	22	217	19	2	1	...	...
	\$12,500-\$14,999.....	15	111	13	2	...	...	...
	\$15,000-\$17,499.....	4	44	3	1	...	...	...
	\$17,500-\$19,999.....	5	33	5	...	...	...	...
	\$20,000 and over.....	20	106	19	1	...	...	...
	Undistributed <sup>2</sup> .....	26	41	26	...	...	...	...
1454	FULLER'S EARTH, TOTAL.....	14	652	8	4	...	1	1
	\$4,000-\$4,999.....	3	38	2	1	...	...	...
	\$6,000-\$7,999.....	5	222	2	2	...	1	...
	\$8,000-\$12,499.....	3	...	1	1	...	...	1
	\$20,000 and over.....	2	392	2	...	...	...	...
	Undistributed <sup>2</sup> .....	1	...	1	...	...	...	...
1455	KAOLIN AND BALL CLAY, TOTAL.....	53	3,394	27	12	5	5	4
	Less than \$3,999.....	4	139	3	...	...	1	...
	\$4,000-\$5,999.....	7	189	4	2	1	...	...
	\$6,000-\$6,999.....	5	633	2	1	...	1	1
	\$7,000-\$7,999.....	5	186	3	1	...	1	...
	\$8,000-\$9,999.....	6	871	1	2	...	2	1
	\$10,000-\$12,499.....	6	585	...	2	3	...	1
	\$12,500-\$14,999.....	8	482	3	3	1	...	1
	\$15,000-\$19,999.....	3	31	...	...	...	...	...
	\$20,000 and over.....	6	80	5	1	...	...	...
	Undistributed <sup>2</sup> .....	3	198	3	...	...	...	...
1456	FELDSPAR, TOTAL.....	74	567	64	8	1	1	...
	Less than \$3,000.....	9	28	9	...	...	...	...
	\$3,000-\$3,999.....	8	48	7	1	...	...	...
	\$4,000-\$5,999.....	4	65	2	2	...	...	...
	\$6,000-\$6,999.....	7	138	5	1	...	1	...
	\$7,000-\$7,999.....	15	47	14	1	...	...	...
	\$8,000-\$8,999.....	3	84	2	...	1	...	...
	\$10,000-\$12,499.....	3	92	1	2	...	...	...
	\$12,500 and over.....	3	63	2	1	...	...	...
	Undistributed <sup>2</sup> .....	22	2	22	...	...	...	...
1457	MAGNESITE AND BRUCITE, TOTAL.....	4	337	1	...	1	2	...
	\$10,000-\$12,499.....	1	...	1	...	...	...	...
	\$12,500-\$14,999.....	1	337	...	...	...	1	...
	\$17,500-\$19,999.....	1	...	...	...	1	...	...
	\$20,000 and over.....	1	...	...	...	...	1	...
1459	CLAY AND RELATED MINERALS, NEC, TOTAL.....	122	1,662	89	25	8	...	...
	Less than \$3,000.....	14	106	12	2	...	...	...
	\$3,000-\$3,999.....	8	187	5	2	1	...	...
	\$4,000-\$4,999.....	5	151	3	...	2	...	...
	\$5,000-\$5,999.....	10	183	7	2	1	...	...
	\$6,000-\$6,999.....	11	144	7	4	...	...	...
	\$7,000-\$8,999.....	6	180	3	1	2	...	...
	\$9,000-\$9,999.....	9	148	6	3	...	...	...
	\$10,000-\$12,499.....	9	167	3	6	...	...	...
	\$12,500-\$14,999.....	10	137	7	3	...	...	...
	\$15,000-\$19,999.....	6	134	3	2	1	...	...
	\$20,000 and over.....	8	29	8	...	...	...	...
	Undistributed <sup>2</sup> .....	26	96	25	...	1	...	...

<sup>1</sup>See table 9, footnote 1.<sup>2</sup>Represents establishments with no employees or with negative value added in mining and, for number of employees, figures for separately reported central offices and related facilities.



Table 11.—Hourly Earnings of Production and Development Workers for Establishments with 10 or More Employees, by Divisions, for the United States: 1958

Ind. Code	Industry by hourly earnings classes	Number of—		Number of establishments with 10 or more employees in—								
		Estab- lish- ments	Empley- ees	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun- tain	Pacific
1452	BENTONITE, TOTAL.....	22	594	...	...	...	1	...	4	5	10	2
	\$1.00-\$1.49.....	5	182	...	...	...	...	...	2	3	...	...
	\$1.50-\$1.99.....	11	287	...	...	...	1	...	2	2	6	...
	\$2.00-\$2.49.....	5	125	{	...	...	...	...	...	...	4	1
	\$2.50-\$2.99.....	1			...	...	...	...	...	...	...	1
1453	FIRE CLAY, TOTAL.....	45	1,007	...	14	10	9	...	9	1	...	2
	\$1.50-\$1.99.....	16	310	...	6	1	4	...	4	1	...	...
	\$2.00-\$2.49.....	12	226	...	3	5	3	...	...	...	...	1
	\$2.50-\$2.99.....	11	297	...	3	2	2	...	4	...	...	...
	\$3.00-\$3.49.....	5	174	{	1	2	...	...	1	...	...	1
	\$3.50-\$3.99.....	1			1	...	...	...	...	...	...	...
1454	FULLER'S EARTH, TOTAL.....	10	642	...	...	...	...	7	3	...	...	...
	\$1.00-\$1.49.....	8	642	{	...	...	...	5	3	...	...	...
	\$1.50-\$1.99.....	2			...	...	...	2	...	...	...	...
1455	KAOLIN AND BALL CLAY, TOTAL.....	37	3,326	...	...	...	...	25	8	1	1	2
	Less than \$1.00.....	2	842	{	...	...	...	1	1	...	...	...
	\$1.00-\$1.49.....	15			...	...	...	10	5	...	...	...
	\$1.50-\$1.99.....	16	1,779	...	...	...	...	12	2	...	...	2
	\$2.00-\$2.49.....	3	705	{	...	...	...	2	...	1	...	...
	\$2.50-\$2.99.....	1			...	...	...	...	...	...	1	...
1456	FELDSPAR, TOTAL.....	14	485	3	...	...	1	7	...	...	2	1
	\$1.00-\$1.49.....	10	370	2	...	...	...	7	...	...	1	...
	\$1.50-\$1.99.....	2	115	{	...	...	1	...	...	...	...	1
	\$2.00-\$2.49.....	2			1	...	...	...	...	...	1	...
1457	MAGNESITE AND BRUCITE, TOTAL.....	3	(D)	...	...	...	...	...	...	...	2	1
	\$2.50-\$2.99.....	2	(D)	...	...	...	...	...	...	...	2	...
	\$4.00-\$4.49.....	1	(D)	...	...	...	...	...	...	...	...	1
1459	CLAY AND RELATED MINERALS, NEC, TOTAL.....	48	1,486	...	3	7	4	11	5	11	3	4
	Less than \$1.00.....	1	504	{	...	...	...	...	1	...	...	...
	\$1.00-\$1.49.....	13			...	...	1	4	3	5	...	...
	\$1.50-\$1.99.....	21	649	...	1	4	3	6	...	6	1	...
	\$2.00-\$2.49.....	7	222	...	1	1	...	...	1	...	2	2
	\$2.50-\$2.99.....	5	111	{	1	1	...	1	...	...	...	2
	\$3.00-\$3.49.....	1			...	1	...	...	...	...	...	...

D Withheld to avoid disclosing data for individual companies.

Table 12.—Distribution of Operating Companies by Employment Size and by Number of Establishments for the United States: 1958

Ind. Code	Industry by establishment count	Number of—			Number of establishments with average employment of—						
		Operat- ing com- panies	Estab- lish- ments	Employ- ees	0-4	5-9	10-19	20-49	50-99	100-249	250-499
1452	BENTONITE, TOTAL.....	29	41	682	14	5	7	12	3	...	...
	Multiunit companies, total.....	11	23	539	3	2	6	10	2	...	...
	1 establishment <sup>1</sup> .....	4	4	80	1	...	1	2	...	...	...
	2 establishments.....	4	8	157	1	...	2	5	...	...	...
	3 or 4 establishments.....	3	11	302	1	2	3	3	2	...	...
	Single unit companies.....	18	18	149	11	3	1	2	1	...	...
1453	FIRE CLAY, TOTAL.....	136	182	1,473	92	45	26	15	3	1	...
	Multiunit companies, total.....	31	77	865	30	12	18	8	2	1	...
	1 establishment <sup>1</sup> .....	18	18	239	6	3	6	2	1	...	...
	2 establishments.....	5	10	86	4	2	3	1	...	...	...
	3 or 4 establishments.....	4	14	125	6	3	2	3	...	...	...
	5 or 6 establishments.....	3	15	415	7	2	2	2	1	1	...
	20 or more establishments.....	1	20	...	7	8	5	...	...	...	...
	Single unit companies.....	105	105	608	62	27	8	7	1	...	...
1454	FULLER'S EARTH, TOTAL.....	13	14	652	3	1	4	4	...	1	1
	Multiunit companies, total.....	4	5	359	2	...	...	2	...	...	1
	1 establishment <sup>1</sup> .....	3	3	...	...	...	...	2	...	...	1
	2 establishments.....	1	2	359	2	...	...	...	...	...	...
	Single unit companies.....	9	9	293	1	1	4	2	...	1	...
1455	KAOLIN AND BALL CLAY, TOTAL.....	41	53	3,394	10	6	11	12	5	5	4
	Multiunit companies, total.....	20	32	2,309	7	3	7	5	3	4	3
	1 establishment <sup>1</sup> .....	14	14	867	6	...	2	2	1	2	1
	2 establishments.....	4	8	...	1	1	1	...	1	2	2
	5 or 6 establishments.....	2	10	1,442	...	2	4	3	1	...	...
	Single unit companies.....	21	21	1,085	3	3	4	7	2	1	1
1456	FELDSPAR, TOTAL.....	64	74	567	56	4	4	8	1	1	...
	Multiunit companies, total.....	5	15	398	2	4	1	6	1	1	...
	1 establishment <sup>1</sup> .....	2	2	...	...	1	...	1	...	...	...
	2 establishments.....	1	2	...	1	...	...	1	...	...	...
	3 or 4 establishments.....	1	4	398	...	...	1	2	...	1	...
	7 to 9 establishments.....	1	7	...	1	3	...	2	1	...	...
	Single unit companies.....	59	59	169	54	...	3	2	...	...	...
1457	MAGNESITE AND BRUCITE, TOTAL.....	4	4	337	1	...	...	...	1	2	...
	Multiunit companies, total.....	2	2	(D) <sup>2</sup>	...	...	...	...	1	1	...
	1 establishment <sup>1</sup> .....	2	2	(D)	...	...	...	...	1	1	...
	Single unit companies.....	2	2	(D)	1	...	...	...	...	1	...
1459	CLAY AND RELATED MINERALS, NEC, TOTAL.....	109	122	1,662	60	14	15	25	8	...	...
	Multiunit companies, total.....	28	41	814	14	3	5	14	5	...	...
	1 establishment <sup>1</sup> .....	21	21	381	10	1	2	5	3	...	...
	2 establishments.....	3	6	93	1	2	1	2	...	...	...
	3 or 4 establishments.....	4	14	340	3	...	2	7	2	...	...
	Single unit companies.....	81	81	848	46	11	10	11	3	...	...

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>Represents companies having at least one establishment classified in other industries.



# Chemical and Fertilizer Mineral Mining

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Industry Group 147, Chemical and Fertilizer Mineral Mining. The separate industries included in this group are as follows:

## S. I. C. Code and Title (1957 Edition)

- 1472—Barite
- 1473—Fluorspar
- 1474—Potash, soda, and borate minerals
- 1475—Phosphate rock
- 1476—Rock salt
- 1477—Sulfur
- 1479—Chemical and fertilizer mineral mining, n.e.c.

**Industry 1472, Barite.** This industry represents establishments primarily engaged in mining, milling, grinding, or otherwise preparing crude barite. Establishments engaged in grinding barite which do not include a mine are classified in the manufacturing Industry 3295, Minerals and earths, ground or otherwise treated. Nearly 60 percent of all ground barite produced in 1958 was prepared at such establishments.

**Industry 1473, Fluorspar.** This industry represents establishments primarily engaged in mining, milling, or otherwise preparing fluorspar.

**Industry 1474, Potash, Soda, and Borate Minerals.** This industry represents establishments primarily engaged in mining, milling, or otherwise preparing natural potassium, sodium, or boron compounds (other than common salt). Products of the industry include potash salts, sodium borates (borax, kernite, ulexite), sodium carbonates (soda ash, trona), sodium sulfates (principally Glauber's salt), and colemanite, a calcium borate. Dry-lake brine operations are included in this industry as well as establishments engaged in producing the specified minerals from underground and open-pit mines.

**Industry 1475, Phosphate Rock.** This industry represents establishments primarily engaged in mining, milling, drying, or otherwise preparing phosphate rock, including apatite. Establishments primarily engaged in the production of phosphoric acid, superphosphates, or other manufactured phosphate compounds or chemicals are classified in Major Group 28, Chemicals and Allied Products.

**Industry 1476, Rock Salt.** This industry represents establishments primarily engaged in mining, crushing, and screening rock salt. Establishments primarily engaged in manufacturing edible salt from rock salt and from natural or artificial brines are classified in the manufacturing Industry 2899, Chemicals and Chemical Preparations, N.E.C. In 1958, 3,816 thousand short tons of evaporated salt, valued at \$86,394 thousand, were shipped, mostly by establishments in this manufacturing industry; as compared with 5,445 thousand short tons, valued at \$40,525 thousand, for net shipments of rock salt, mostly by establishments in the Rock Salt Industry. Another source of salt is brine produced and used as such. Separate Census statistics for salt from this source are not available since such brine salts are usually produced and consumed by the same manufacturing plant in the production of chemicals and other manufactured products. According to the Bureau

of Mines, salt in brine accounted for 58 percent of the total quantity of all kinds of salt sold or used by producers in 1958.

**Industry 1477, Sulfur.** This industry represents establishments primarily engaged in mining native sulfur, including the extraction of native sulfur at well operations and mining and beneficiating sulfur ore. The mining of pyrites for sulfur and the recovery of sulfur from beneficiation of natural gas are included in Industry 1479, Chemical and Fertilizer Mineral Mining, N.E.C.

**Industry 1479, Chemical and Fertilizer Mineral Mining, N.E.C.** This industry represents establishments primarily engaged in mining, milling, or otherwise preparing chemical or fertilizer mineral raw materials, not elsewhere classified, such as arsenic minerals, guano, lithium minerals, mineral pigments, pyrites, and strontium minerals. Separate subindustry figures have been tabulated for "Pyrites," "Elemental Sulfur," and "Miscellaneous Chemical and Fertilizer Minerals."

The total value of shipments and receipts of the chemical and fertilizer mineral mining industries in 1958 was \$465 million, of which primary products of these industries amounted to about \$457 million and secondary products, products purchased and resold without further processing, and receipts for services amounted to about \$8 million. Of the total value of shipments for this group, the Barite Industry accounted for \$14 million; the Fluorspar Industry, \$20 million; the Potash, Soda, and Borate Minerals Industry, \$141 million; the Phosphate Rock Industry, \$132 million; the Rock Salt Industry, \$42 million; the Sulfur Industry, \$106 million; and the Chemical and Fertilizer Mineral Mining, N.E.C., Industry, \$10 million.

These figures represent gross value of shipments and some of them contain duplication due to the inclusion of the value of minerals transferred from one establishment to other establishments in the same industry for preparation. For the group as a whole, the cost of minerals transferred to other establishments for preparation amounted to about \$37 million, or 8 percent of the gross value of shipments of all industries in this group. For the Sulfur Industry, no receipts of minerals for preparation were reported. For the Barite; Potash, Soda, and Borate Minerals; Rock Salt; and Chemical and Fertilizer Mineral Mining, N.E.C., Industries, transfers of minerals for preparation were small. For the Fluorspar Industry, the cost of minerals transferred for preparation amounted to about \$3.4 million, or 17 percent, of the gross value of shipments. For the Phosphate Rock Industry, the cost of minerals transferred for preparation totaled \$33.0 million, or 25 percent, of the gross value of shipments. Separate figures on gross and net shipments are shown in tables 1, 3, and 5 of this report.

The general statistics (employment, payrolls, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the production of secondary products, and in the performance of contract work for others. This fact should be taken into account in comparing industry statistics (tables 1-4 and 7-12) with product statistics (table 6) showing ship-



ments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5 which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

The Bureau of the Census statistics on primary products of the chemical and fertilizer minerals industries are, in general, comparable with product statistics for the same commodities published by the Bureau of Mines. The differences which occur result primarily from differences in data collection methods, coverage, and objectives sought. The most nearly comparable statistics from the two bureaus are shown in the table below. Major reasons for the differences in the product statistics are:

(1) The Bureau of the Census collects information on production and shipments and calculates net shipments whereas the Bureau of Mines generally obtains figures on products sold or used.

(2) The Bureau of the Census excludes small establishments whose value of products and reported costs were below \$500. The Bureau of Mines includes all reports obtained regardless of size. However, the contribution to products of such establishments which Census excludes is usually small.

(3) Differences exist in coverage in certain areas for both collecting agencies.

(4) Census figures are sometimes reported at a different level of preparation than Bureau of Mines figures. In general, Census uses a uniform approach to crude and prepared material, requesting for crude the total material actually loaded at the mine site and, under prepared material, the product of all preparation methods such as milling, washing, grinding, or sizing. These factors are the principal explanation for the differences for barite, where the Bureau of Mines figure shown below as crude barite includes some material prepared sufficiently to be marketable, and where Census figures include under prepared barite some material which was washed only and which may have been further prepared by another establishment in the same industry.

QUANTITY AND VALUE OF MINERAL PRODUCTS AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU OF MINES FOR THE UNITED STATES: 1958

Product	Unit of measure	Bureau of the Census statistics			Bureau of Mines statistics		
		Production (Quantity)	Shipments including interplant transfers		Production (Quantity)	Shipments	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
Barite:							
Crude barite.....	1,000 short tons	608	148	1,402	<sup>1</sup> 486	(NA)	(NA)
Prepared barite.....	.....do.....	(NA)	<sup>2</sup> 1,120	<sup>2</sup> 30,466	<sup>3</sup> 1,014	<sup>3</sup> 1,027	<sup>3</sup> 28,352
Net shipments by the barite industry.....	.....do.....	xxx	<sup>4</sup> 603	<sup>4</sup> 13,434	xxx	<sup>5</sup> 605	<sup>5</sup> 7,510
Fluorspar:							
Production and shipments:							
Crude fluorspar.....	.....do.....	836	96	1,785	818	(NA)	(NA)
Prepared fluorspar.....	.....do.....	368	366	16,996	(NA)	(NA)	(NA)
Net shipments.....	.....do.....	xxx	<sup>4</sup> 275	<sup>4</sup> 15,443	xxx	320	15,071
Crude fluorspar prepared.....	.....do.....	921	(NA)	(NA)	815	(NA)	(NA)
Potash, soda, borate minerals:							
Potassium salts:							
Crude salts.....	.....do.....	12,224	4,002	82,468	12,224	(NA)	(NA)
Processed or refined salts..	.....do.....	3,710			3,640	(NA)	<sup>6</sup> 75,000
Sodium carbonates.....	.....do.....	(NA)	639	17,175	(NA)	<sup>5</sup> 629	<sup>5</sup> 17,032
Sodium sulfate.....	.....do.....	(NA)	344	6,495	(NA)	347	6,716
Boron compounds.....	.....do.....	(NA)	<sup>4</sup> 559	<sup>4</sup> 32,275	(NA)	528	38,310
Phosphate rock:							
Crude ore or matrix.....	1,000 long tons	46,031	3,162	8,922	46,459	(NA)	(NA)
Washed or concentrated.....	.....do.....	12,636	8,492	41,607	12,360	(NA)	(NA)
Dried, calcined, or sintered...	.....do.....	11,747	11,817	81,440	11,486	(NA)	(NA)
Net shipments.....	.....do.....	xxx	{ <sup>4</sup> 15,182 <sup>7</sup> 15,605	{ <sup>4</sup> 90,105 <sup>7</sup> 99,036	xxx	<sup>5</sup> 14,714	<sup>5</sup> 92,769
Rock salt.....	1,000 short tons	(NA)					
Native sulfur and sulfur ore.....	1,000 long tons	4,654	4,619	106,200	4,646	4,798	110,777
Frasch process sulfur.....	.....do.....	4,642	4,607	105,995	4,643	4,644	109,272
Sulfur ore.....	.....do.....	12	12	205	6	154	1,505
Pyrites.....	.....do.....	1,025	377	2,392	974	(NA)	<sup>6</sup> 7,987
Elemental sulfur.....	.....do.....	669	628	16,465	642	(NA)	(NA)

NA--Not available.

xxx--Not applicable.

<sup>1</sup>Represents mine or plant output of primary barite.

<sup>2</sup>Includes some barite that was prepared by washing only.

<sup>3</sup>Represents crushed and ground barite sold by producers.

<sup>4</sup>Represents gross shipments less receipts from other establishments for preparation.

<sup>5</sup>Represents minerals sold or used by producers.

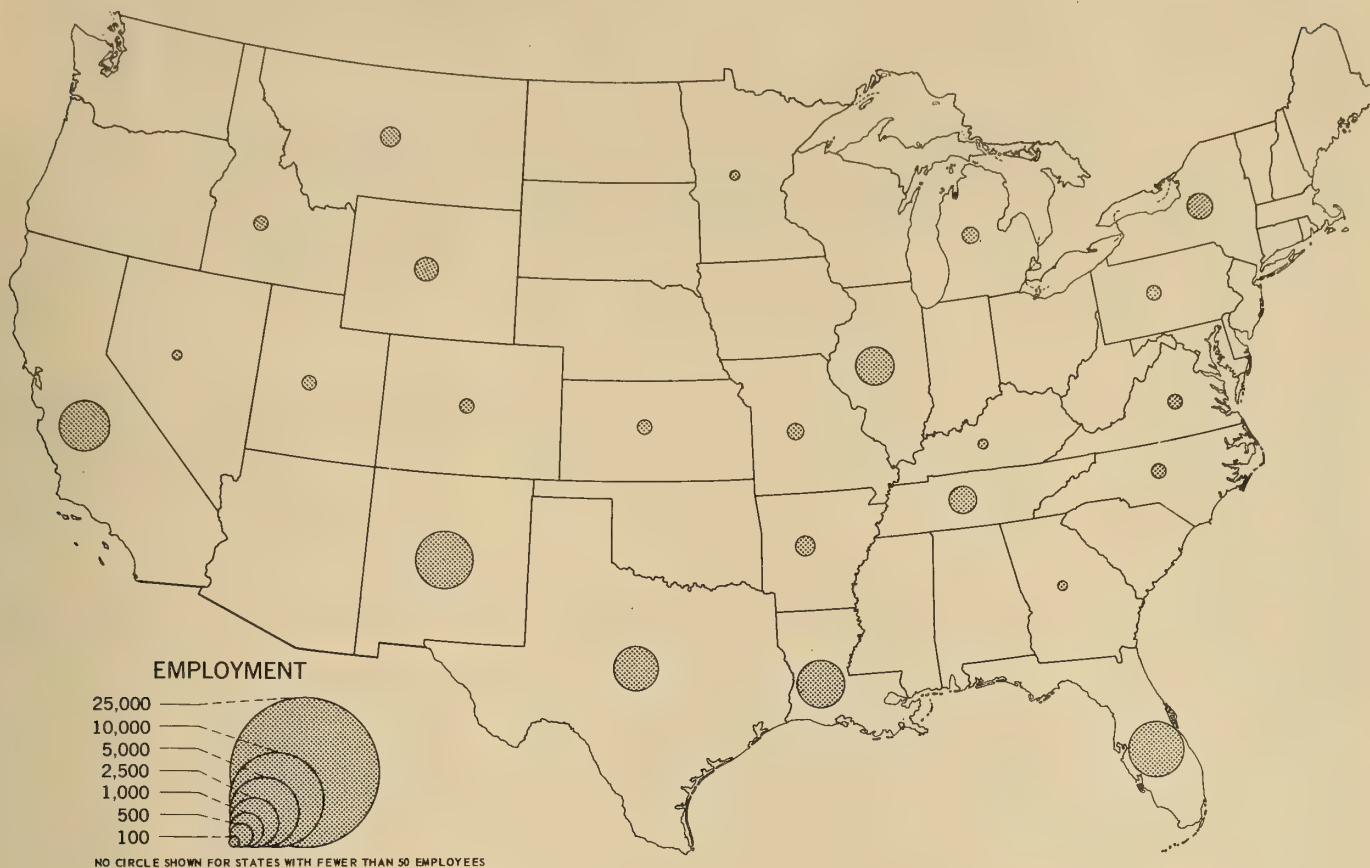
<sup>6</sup>Represents value of production.

<sup>7</sup>Represents shipments of crude ore or matrix, except to washer or concentrator; washed or concentrated rock, except to drier; and dried, calcined, or sintered rock.



# CHEMICAL AND FERTILIZER MINERALS

## Distribution of Employment by State: 1958



## Employment: 1840-1958

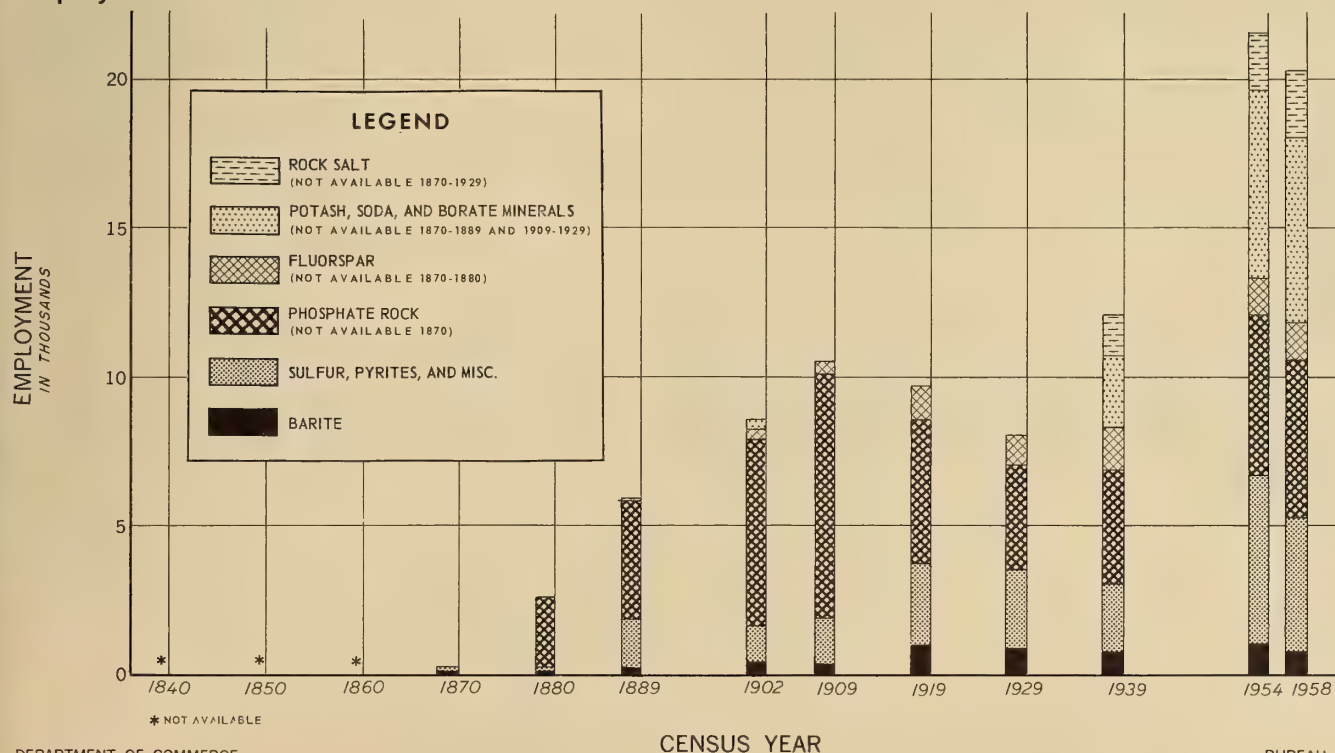


Table 1-General Statistics for the United States: 1958 and Earlier Years

(For explanations of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. I)

Ind. code	Industry or subindustry and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, minerals received for preparation, fuels, purchased electricity, and contract work (\$1,000)	Cost of purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Value of net shipments and receipts (\$1,000)	Quantity of primary products <sup>1</sup> (1,000 tons)	Capital expenditures (\$1,000)
			Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1477	CHEMICAL-FERTILIZER MINERALS:															
	1958.....	207	271	102	20,556	115,976	14,832	30,405	74,527	335,153	145,216	23,373	464,612	427,472	xxx	39,130
	1954.....	243	317	114	21,609	99,391	17,295	36,418	73,324	340,520	128,653	26,054	457,586	418,671	xxx	37,641
	1939 <sup>2</sup> .....	176	197	(NA)	12,231	17,270	10,586	21,062	12,230	61,682	12,407	(NA)	(NA)	74,089	xxx	(NA)
1472	BARITE:															
	1958.....	41	53	8	929	3,402	781	1,588	2,698	11,321	3,169	251	13,768	613,434	603	973
	1954.....	36	42	11	1,125	3,874	1,036	2,403	3,451	14,051	3,980	1,250	18,269	18,269	903	1,012
	1939.....	37	47	(NA)	854	752	792	1,439	597	1,652	413	(NA)	(NA)	2,065	348	(NA)
	1929.....	(NA)	44	(NA)	915	834	844	(NA)	648	1,489	313	154	(NA)	1,802	272	(NA)
	1919 <sup>2</sup> .....	(NA)	89	(NA)	978	879	919	(NA)	769	1,276	316	(NA)	1,592	1,574	(NA)	(NA)
	1909.....	23	42	(NA)	259	110	240	(NA)	90	183	42	(NA)	225	225	(NA)	(NA)
	1902.....	42	49	(NA)	364	145	7336	(NA)	130	194	59	(NA)	(NA)	203	62	(NA)
	1889.....	(NA)	(NA)	(NA)	215	55	204	(NA)	(NA)	98	8	(NA)	(NA)	106	21	(NA)
	1880 <sup>8</sup> .....	(NA)	46	(NA)	63	8	(NA)	(NA)	(NA)	37	...	(NA)	(NA)	37	4	(NA)
1473	FLUORSPAR:															
	1958.....	50	55	11	1,235	5,616	1,044	2,105	4,336	12,653	8,126	764	19,977	16,639	275	1,566
	1954.....	94	104	15	1,260	4,866	997	2,001	3,451	9,914	5,735	561	15,461	13,733	265	749
	1939 <sup>2</sup> .....	60	61	(NA)	1,396	1,362	1,287	2,568	1,334	2,655	5742	(NA)	(NA)	3,397	202	(NA)
	1929 <sup>2</sup> .....	(NA)	28	(NA)	1,171	1,402	1,053	(NA)	1,112	2,038	5820	140	(NA)	2,858	156	(NA)
	1919.....	(NA)	54	(NA)	1,243	1,491	1,124	(NA)	1,196	2,392	943	(NA)	3,335	3,335	(NA)	(NA)
	1909.....	16	418	(NA)	323	196	296	(NA)	170	228	61	(NA)	289	289	(NA)	(NA)
	1902.....	18	422	(NA)	311	137	7269	(NA)	110	245	531	(NA)	(NA)	276	49	(NA)
	1889.....	(NA)	(NA)	(NA)	101	14	97	(NA)	(NA)	41	5	(NA)	(NA)	46	10	(NA)
1474	POTASH, SODA, BORATE MINERALS:															
	1958.....	118	21	14	6,661	41,067	4,590	9,212	26,746	111,082	34,490	6,936	141,115	(D)	95,544	11,393
	1954.....	15	20	13	6,322	33,439	4,738	9,381	23,028	82,213	26,210	8,390	107,757	(D)	4,606	9,056
	1939 <sup>2</sup> .....	15	417	(NA)	2,438	4,756	2,049	4,388	3,445	13,330	53,701	(NA)	(NA)	17,031	787	(NA)
	1902.....	6	26	(NA)	167	133	153	(NA)	115	2,170	5214	(NA)	(NA)	2,384	19	(NA)
1475	PHOSPHATE ROCK:															
	1958.....	43	65	37	5,393	27,210	3,975	8,255	17,185	64,375	67,326	6,095	132,094	99,109	15,605	5,702
	1954.....	53	75	39	5,440	21,529	4,579	10,119	17,089	62,089	59,069	8,156	117,976	82,583	13,386	11,338
	1939 <sup>2</sup> .....	33	440	(NA)	3,754	3,729	3,372	6,680	2,871	9,003	53,283	(NA)	(NA)	12,286	3,958	(NA)
	1935.....	(NA)	(NA)	(NA)	2,912	2,457	2,638	(NA)	1,807	8,442	52,981	(NA)	(NA)	11,423	(NA)	(NA)
	1929.....	(NA)	26	(NA)	3,506	4,082	3,201	(NA)	3,304	9,497	53,547	805	(NA)	13,044	3,829	(NA)
	1919 <sup>2</sup> .....	(NA)	48	(NA)	4,747	4,662	4,373	(NA)	3,901	6,155	4,145	(NA)	10,300	10,300	1,989	(NA)
	1909.....	56	76	(NA)	8,301	3,836	7,923	(NA)	3,240	8,265	2,516	(NA)	10,781	10,781	(NA)	(NA)
	1902.....	87	4115	(NA)	6,362	2,285	75,971	(NA)	1,930	3,967	5956	(NA)	(NA)	4,923	1,549	(NA)
	1889.....	(NA)	(NA)	(NA)	5,011	1,209	4,901	(NA)	(NA)	2,505	433	(NA)	(NA)	2,938	550	(NA)
	1880.....	(NA)	21	(NA)	2,475	470	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1,124	211	(NA)
1476	ROCK SALT:															
	1958.....	18	22	12	1,984	10,996	1,602	3,508	7,937	34,073	8,222	2,125	41,813	(D)	105,445	2,607
	1954.....	11	15	12	1,925	8,571	1,659	3,861	7,117	30,013	6,297	1,534	35,658	35,581	4,618	2,186
	1939.....	17	417	(NA)	1,561	1,974	1,380	2,608	1,434	5,721	51,175	(NA)	(NA)	6,896	2,047	(NA)
1477	SULFUR:															
	1958.....	14	24	13	3,677	24,570	2,303	4,644	13,267	94,063	21,344	7,077	106,202	106,202	4,619	16,282
	1954.....	12	20	13	4,095	21,186	3,077	6,229	14,619	124,166	22,561	2,803	140,685	140,685	5,510	8,845
	1939 <sup>2</sup> .....	8	410	(NA)	2,024	4,456	1,517	3,031	2,545	28,863	52,949	(NA)	(NA)	31,812	2,091	(NA)
	1929 <sup>2,11</sup> .....	(NA)	9	(NA)	2,504	4,438	2,199	(NA)	3,483	29,302	57,824	1,634	(NA)	37,126	2,328	(NA)
	1919 <sup>2</sup> .....	(NA)	4	(NA)	1,273	2,095	1,129	(NA)	1,682	13,720	4,216	(NA)	17,936	17,936	(NA)	(NA)
	1909.....	4	4	(NA)	418	435	366	(NA)	325	3,476	956	(NA)	4,432	4,432	(NA)	(NA)
	1902 <sup>11</sup> .....	18	423	(NA)	1,024	449	7970	(NA)	399	726	5221	(NA)	(NA)	947	196	(NA)
1479	CHEMICAL-FERTILIZER MINING, NEC:															
	1958, total.....	28	31	7	677	3,115	557	1,093	2,358	7,586	2,539	125	9,643	69,452	xxx	607
	Pyrites sub-industry.....	3	3	3	243	1,069	219	434	907	1,800	490	16	2,017	2,017	255	289
	Elemental sulfur subindustry....	9	10	1	124	735	96	192	540	3,853	882	21	4,731	4,731	200	25
	Miscellaneous chemical-fertilizer minerals subindustry....	16	18	3	310	1,311	242	467	911	1,933	1,167	88	2,895	(D)	xxx	293
	1954.....	36	39	11	1,442	5,926	1,209	2,424	4,569	18,077	4,801	3,360	21,780	(D)	xxx	4,455
	1919 <sup>2</sup> .....	(NA)	40	(NA)	1,478	1,784	1,357	(NA)	1,559	1,850	1,040	(NA)	2,890	2,890	xxx	(NA)
	1909 <sup>2</sup> .....	34	38	(NA)	1,330	524	1,268	(NA)	452	558	270	(NA)	828	828	xxx	(NA)
	1889.....	(NA)	(NA)	(NA)	632	204	617	(NA)	188	507	159	(NA)	(NA)	666	130	(NA)
	1880.....	(NA)	48	(NA)	106	25	(NA)	(NA)	(NA)	12134	122	(NA)	(NA)	12136	(NA)	(NA)
	1870.....	(NA)	4	(NA)	12	6	(NA)	(NA)	(NA)	13	2	(NA)	(NA)	15	(NA)	(NA)

See footnotes on next page.



## Footnotes for Table 1—MIC-14E

D Withheld to avoid disclosing figures for individual companies. F Revised.

NA Not available.

xxx Not applicable.

<sup>1</sup>Represents the product indicated by the name of the industry or subindustry. For 1958 and 1954, represents net shipments; in general, for earlier years, represents net production. Represents long tons for phosphate rock, sulfur, and pyrites; for all other products, represents short tons.

<sup>2</sup>Excludes nonproducing operations as follows: For 1939, 1 fluorspar mine; 2 mines and 1 preparation plant in the potash, soda, borate minerals industry; 1 mine and 1 preparation plant in the phosphate rock industry; and 3 sulfur mines; for 1929, 4 fluorspar and 2 sulfur establishments; for 1919, 1 barite, 1 phosphate rock, 1 sulfur, and 1 pyrite establishment; for 1909, 1 pyrite, 1 lithium minerals, and 2 mineral pigments establishments.

<sup>3</sup>Represents the sum of the figures shown for the separate industries or subindustries and probably includes some duplication due to the same company operating in more than one industry.

<sup>4</sup>Represents number of mines.

<sup>5</sup>Excludes the cost of minerals received for preparation which amounted for 1954 to \$38,838 thousand for all Chemical-Fertilizer Minerals Industries and to \$35,393 thousand for the Phosphate Rock Industry.

<sup>6</sup>Represents value of net shipments of primary products only.

<sup>7</sup>Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

<sup>8</sup>Only one establishment was reported in the Barite Industry for 1870 and 1860.

<sup>9</sup>Includes shipments by industries other than Potash, Soda, and Borate Minerals, amounting to less than one percent of the total.

<sup>10</sup>Includes shipments by industries other than Rock Salt, amounting to less than 10 percent of the total.

<sup>11</sup>For 1929 and 1902, figures for the Pyrites Subindustry (see industry 1479 below) are included with those for the Sulfur Industry. Only one establishment in the Sulfur Industry was reported for 1889 and 1880.

<sup>12</sup>Excludes figures for 1 pyrite mine.

Table 2.—General Statistics by Regions and States and Type of Operation: 1958 and 1954

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries by State see table 2 of the corresponding Chapter of 1954 Census of Mineral Industries, Vol. I)

Ind code	Industry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, etc., and purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Quantity of net shipments of primary products <sup>2</sup> (1,000 tons)	Capital expendi- tures (\$1,000)	All em- ployees, number	Value added in mining (\$1,000)
		Total	With 20 or more employ- ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1472	BARITE, TOTAL.....	53	8	929	3,402	781	1,588	2,698	11,321	3,420	13,768	603	973	1,125	14,051
	<u>Region</u>														
	West North Central.....	21	3	307	1,060	273	551	921	4,527	915	5,009	208	433	379	2,381
	South.....	17	4	551	2,034	440	898	1,495	5,857	2,219	7,646	287	430	687	10,967
	East South Central.....	10	...	67	138	60	77	106	413	342	698	36	57	(NA)	(NA)
	West.....	15	1	71	308	68	139	282	937	286	1,113	108	110	59	70
	<u>Type of Operation</u>														
	Producing establishments, total.....	48	8	922	3,385	776	1,580	2,686	11,318	3,388	13,768	603	938	(NA)	(NA)
	Open-pit mines, total.....	41	6	707	2,385	624	1,211	1,952	9,696	2,556	11,533	517	719	(NA)	(NA)
	Mines only.....	12	...	45	137	45	80	135	464	233	670	99	27	(NA)	(NA)
	Mines with preparation plants.....	29	6	662	2,248	579	1,131	1,817	9,232	2,323	10,863	418	692	708	10,308
	Other producing estab- lishments <sup>3</sup> .....	7	2	215	1,000	152	369	734	1,622	832	2,235	86	219	(NA)	(NA)
	Nonproducing establishments..	5	...	7	17	5	8	12	3	32	...	...	35	(NA)	(NA)
1473	FLUORSPAR, TOTAL.....	55	11	1,235	5,616	1,044	2,105	4,336	12,653	8,890	19,977	275	1,566	1,260	9,914
	<u>Region and State</u>														
	East North Central (Illinois)	25	6	<sup>5</sup> 830	<sup>5</sup> 3,713	691	1,344	2,772	6,590	4,012	9,627	150	975	682	5,426
	South.....	11	2	164	676	134	281	511	1,423	3,050	4,319	125	154	215	974
	Mountain.....	19	3	241	1,227	219	480	1,053	4,640	1,828	6,031	...	437	<sup>6</sup> 363	<sup>6</sup> 3,514
	<u>Type of Operation</u>														
	Producing establishments, total.....	43	11	1,217	5,536	1,029	2,075	4,270	12,736	8,754	19,977	275	1,513	1,202	9,905
	Open-pit and combination open-pit and under- ground mines <sup>7</sup> .....	14	2	162	817	149	331	713	3,797	1,194	4,706	<sup>8</sup> 126	285	194	2,655
	Underground mines, total...	25	8	996	4,444	843	1,667	3,419	8,461	5,053	12,308	<sup>8</sup> 274	1,206	950	6,754
	Mines only.....	11	1	104	431	98	143	388	1,095	317	1,282	71	130	89	602
	Mines with preparation plants.....	14	7	892	4,013	745	1,524	3,031	7,366	4,736	11,026	<sup>8</sup> 203	1,076	861	6,152
	Preparation plants only....	4	1	59	275	37	77	138	478	2,507	2,963	<sup>8</sup> 62	22	58	496
	Nonproducing establishments..	12	...	18	80	15	30	66	( <sup>9</sup> )	136	...	...	53	18	9
1474	POTASH, SODA, BORATE MINERALS, TOTAL.....	21	14	<sup>10</sup> 6,661	<sup>10</sup> 41,067	4,590	9,212	26,746	111,082	41,426	141,115	<sup>11</sup> 5,544	11,393	6,322	82,213
	<u>State</u>														
	New Mexico.....	7	6	3,503	20,914	2,665	5,004	15,021	60,141	18,754	75,562	3,662	3,333	3,439	51,778
	California.....	7	4	2,554	16,407	1,555	3,403	9,684	40,908	19,576	53,154	<sup>11</sup> 1,325	7,330	2,337	24,301
	<u>Type of Operation</u>														
	Producing underground mines with preparation plants <sup>12</sup> ...	8	7	3,894	23,128	2,945	5,537	16,596	67,489	20,632	84,689	4,031	3,432	(NA)	(NA)
	Open-pits, brine operations, and nonproducing operations <sup>13</sup>	13	7	2,242	13,917	1,645	3,675	10,150	43,593	20,794	56,426	1,507	7,961	(NA)	(NA)
1475	PHOSPHATE ROCK, TOTAL....	65	37	5,393	27,210	3,955	8,255	17,185	64,375	73,421	132,094	15,605	5,702	5,440	62,089
	<u>Region and State</u>														
	South Atlantic (North Carolina and Florida).....	33	19	3,259	14,676	2,692	5,638	11,413	47,822	60,888	104,298	12,136	4,412	3,948	46,015
	East South Central (Tennessee)	18	8	760	3,631	645	1,415	2,838	8,723	6,871	15,302	1,529	292	791	9,605
	Mountain.....	9	7	653	3,394	554	1,086	2,733	7,138	5,113	11,268	1,859	983	701	6,469
	Idaho.....	4	3	181	1,036	136	293	733	2,799	2,120	4,856	1,250	63	(NA)	(NA)
	<u>Type of Operation</u>														
	Producing open-pit mines.....	47	26	4,228	21,806	2,956	6,292	12,850	51,748	29,299	77,171	7,784	3,876	3,668	40,406
	Without preparation plants.	17	2	217	789	195	397	656	1,918	953	2,716	102	155	145	1,627
	With preparation plants....	30	24	4,011	21,017	2,761	5,895	12,194	49,830	28,346	74,455	7,682	3,721	3,523	38,779
	Other mines and nonpro- ducing establishments <sup>14</sup> .....	5	3	383	2,007	337	639	1,709	3,393	1,760	4,814	350	339	552	4,157
	Producing preparation plants only.....	13	8	782	3,397	662	1,324	2,626	9,234	42,362	50,109	7,471	1,487	1,220	17,526
1476	ROCK SALT, TOTAL.....	22	12	1,984	10,996	1,602	3,508	7,937	34,073	10,347	41,813	<sup>15</sup> 5,445	2,607	1,925	30,013
	<u>Region</u>														
	Northeast and North Central..	6	5	1,067	7,072	799	1,768	4,690	20,697	3,716	23,595	<sup>15</sup> 3,583	818	926	18,555
	West South Central.....	5	5	807	3,347	722	1,485	2,846	12,408	5,963	16,666	<sup>15</sup> 1,585	1,705	999	11,458
	West.....	11	2	110	577	81	255	401	968	668	1,552	<sup>15</sup> 277	84	...	...
1477	SULFUR.....	24	13	3,677	24,570	2,303	4,644	13,267	94,063	28,421	106,202	4,619	16,282	4,095	124,166
1479	CHEMICAL-FERTILIZER MINING, NEC, TOTAL.....	31	7	677	3,115	557	1,093	2,358	7,586	2,664	9,643	xxx	607	1,442	18,074
	<u>Region</u>														
	East and South.....	20	4	474	2,037	389	727	1,528	4,745	1,867	6,269	(NA)	343	(NA)	(NA)
	West South Central.....	10	...	72	342	56	102	253	2,294	475	2,708	(NA)	61	(NA)	(NA)
	West.....	11	3	203	1,078	168	366	830	2,841	797	3,374	(NA)	264	(NA)	(NA)

See footnotes on next page.



Footnotes for Table 2—MIC-14E

NA Not available.

<sup>1</sup>General statistics for most States are not shown separately in this table in order to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such States are shown below for 1958, with the number of establishments in each State (and in parentheses the number of employees or employment-size range):

SIC 1472, Barite: Missouri, 20 (250-499); Kansas, 1 (0-4); South Carolina, 1 (10-19); Georgia, 3 (100-249); Kentucky, 1 (0-4); Tennessee, 9 (50-99); Arkansas, 2 (250-499); Texas, 1 (0-4); Montana, 2 (10-19); Idaho, 1 (0-4); New Mexico, 1 (0-4); Utah, 1 (0-4); Nevada, 5 (20); California, 5 (34).  
 SIC 1473, Fluorspar: Delaware, 1 (10-19); Kentucky, 9 (100-249); Texas, 1 (20-49); Montana, 1 (20-49); Colorado, 4 (168); New Mexico, 3 (0-4); Arizona, 1 (10-19); Utah, 5 (9); Nevada, 5 (29).  
 SIC 1474, Potash, soda, borate minerals: Texas, 2 (50-99); Wyoming, 3 (395); Utah, 2 (50-99).  
 SIC 1475, Phosphate rock: Pennsylvania, 1 (10-19); North Carolina, 1 (0-4); Florida, 32 (2,500 and over); Louisiana, 1 (20-49); Texas, 3 (37); Montana, 3 (327); Idaho, 4 (100-249); Wyoming, 1 (50-99); Utah, 1 (50-99).  
 SIC 1476, Rock salt: New York, 2 (250-499); Michigan, 1 (250-499); Kansas, 3 (173); Louisiana, 4 (500-999); Texas, 1 (50-99); New Mexico, 7 (45); Utah, 2 (5-9); Nevada, 1 (0-4); California, 1 (50-99).  
 SIC 1477, Sulfur: Louisiana, 7 (1,000-2,499); Texas, 9 (1,831); Colorado, 1 (0-4); Utah, 1 (10-19); Nevada, 2 (0-4); California, 4 (7).  
 SIC 1479, Chemical-fertilizer mining, nec: New Hampshire, 1 (5-9); New York, 2 (50-99); Virginia, 2 (100-249); North Carolina, 4 (177); Georgia, 1 (0-4); Arkansas, 2 (20-49); Oklahoma, 1 (5-9); Texas, 7 (46); Wyoming, 3 (67); Colorado, 2 (50-99); Arizona, 1 (5-9); Nevada, 2 (0-4); Washington, 1 (0-4); Oregon, 1 (0-4); California, 1 (50-99).

<sup>2</sup>Represents the product indicated by the name of the industry reported in long tons for phosphate rock, sulfur, and pyrites; and in short tons for all other products.

<sup>3</sup>Represents 1 underground mine without preparation plant, 4 underground mines with preparation plants, 1 combination open-pit and underground mine with preparation plant, and 1 separately operated preparation plant.

<sup>4</sup>Includes figures for 40 salaried employees which were not distributed by type of operation.

<sup>5</sup>Includes figures for central office employees in Missouri.

<sup>6</sup>Includes figures for central office employees in Missouri and Oklahoma and for 2 establishments in California.

<sup>7</sup>Represents 4 open-pit mines only, 6 open-pit mines with preparation plants, 1 combination open-pit and underground mine without preparation plant, and 3 combination open-pit and underground mines with preparation plant.

<sup>8</sup>Represents gross shipments.

<sup>9</sup>Not shown since cost of supplies, fuels, purchased electricity, contract work, and purchased machinery exceeds capital expenditures.

<sup>10</sup>Includes 525 employees, with payroll of \$4,022 thousand, at central offices which were not distributed by type of operation.

<sup>11</sup>Includes shipments by industries other than Potash, soda, and borate minerals, amounting to less than one percent of the total. Such shipments for the East and South are included with shipments for California.

<sup>12</sup>Includes 1 combination open-pit and underground mine with a preparation plant.

<sup>13</sup>Represents 3 open-pit mines with preparation plants, 6 brine operations, and 4 nonproducing operations.

<sup>14</sup>Represents 1 combination open-pit and underground mine, 2 underground mines, and 2 nonproducing mines.

<sup>15</sup>Includes shipments by industries other than Rock salt, amounting to less than 10 percent of the total.

Table 3.—Detailed Statistics for Industries, by Selected Areas,

Item	147— Chemical- fertilizer minerals industries, total	1472—Barite industry				1473—Fluorspar industry		
		United States, all operations	West North Central	South	Producing open-pit mines with preparation plants	United States, all operations	East North Central (Illinois)	Producing underground mines with preparation plants
1 Number of establishments, total.....	271	53	21	17	29	55	25	14
2     With 0-19 employees.....	169	45	18	13	23	44	19	7
3     With 20-99 employees.....	51	6	3	2	5	8	3	4
4     With 100 employees and over.....	51	2	...	2	1	3	3	3
5     Including mines.....	243	52	21	17	29	51	24	14
6     Including preparation plants.....	170	35	14	13	29	27	9	14
7 Net shipments of primary products <sup>2</sup> .....1,000 tons..	xxx	603	208	287	418	275	150	<sup>3</sup> 203
8 Value of shipments and receipts, total.....\$1,000..	464,612	13,768	5,009	7,646	10,863	19,977	9,627	11,026
9     Minerals transferred to other estab- lishments for preparation and resale <sup>6</sup> .....do...	37,140	(D)	...	(D)	(D)	3,338	(D)	(D)
10     Net shipments and receipts, total.....do...	427,472	(D)	5,009	(D)	(D)	16,639	(D)	(D)
11     Primary products.....do...	419,407	13,434	5,009	7,318	10,644	15,443	7,675	8,836
12     Other products and services.....do...	8,065	(D)	...	(D)	(D)	1,196	(D)	(D)
13 Value added in mining.....do...	335,153	11,321	4,527	5,857	9,232	12,653	6,590	7,366
14 Number of persons engaged, total.....	20,699	962	323	558	675	1,301	<sup>8</sup> 853	903
15     Production and development workers, average for year.....do...	14,832	<sup>9</sup> 781	273	440	579	<sup>9</sup> 1,044	691	745
16         March.....	15,180	839	356	406	684	1,077	744	813
17         May.....	14,843	741	252	414	573	1,076	713	763
18         August.....	14,547	746	227	466	510	1,049	664	707
19         November.....	14,763	786	256	475	548	983	645	694
20     Other employees.....	5,724	148	34	111	83	191	<sup>8</sup> 139	147
21     Proprietors and firm members.....	143	33	16	7	13	66	23	11
22     Performing manual labor.....	66	19	11	3	7	27	10	2
23 Man-hours worked by production and development workers, total.....1,000..	30,405	1,588	551	898	1,131	2,105	1,344	1,524
24     At mines and well operations, total.....do...	16,442	719	229	408	391	1,173	745	798
25         Underground.....do...	5,789	240	...	197	...	913	581	702
26         Open-pits and well operations.....do...	5,386	429	212	184	352	111	68	...
27         Surface (including mine shops and yards).....do...	5,267	50	17	27	39	149	96	96
28     At preparation plants.....do...	13,963	869	322	490	740	932	599	726
29 Man-hours spent on development and exploration work (included above).....do...	577	28	2	19	15	96	50	49
30 Principal expenses designated below, total...\$1,000..	261,192	6,571	1,909	4,148	4,392	13,742	<sup>8</sup> 7,292	8,231
31     Wages of production and development workers.....do...	74,527	2,698	921	1,495	1,817	4,336	2,772	3,031
32     Salaries of all other employees.....do...	41,449	704	139	539	431	1,280	<sup>8</sup> 941	982
33     Supplies and purchases for resale.....do...	55,790	1,953	363	1,470	1,237	2,504	2,359	2,649
34     Minerals received for preparation.....do...	46,019							
35     Purchased fuel.....do...	18,432	281	82	155	196	563	316	380
36     Purchased electricity.....do...	11,641	554	193	327	381	594	377	461
37     Contract work.....do...	13,334	381	211	162	330	1,127	527	728
38     Purchased machinery installed.....do...	23,373	251	66	105	179	764	433	518
39 Capital expenditures, total.....do...	39,130	973	433	430	692	1,566	975	1,076
40     Development and exploration of mineral property.....do...	2,139	204	...	189	45	627	391	404
41     Preparation plant and other construction.....do...	3,655	426	265	150	383	160	104	145
42     New machinery and equipment.....do...	32,684	307	142	85	233	702	406	493
43     Used plant and equipment.....do...	652	36	26	6	31	77	74	34
44 Energy used.....million kwh equivalent..	24,464	198	65	106	141	379	214	259
45     Coal.....1,000 short tons..	78	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
46     Fuel oil.....1,000 barrels..	1,699	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
47     Gas.....million cu. ft..	62,405	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
48     Other fuels and undistributed <sup>10</sup> .....\$1,000..	1,679	281	82	155	196	563	316	380
49     Electric energy purchased.....million kwh..	1,061	43	20	21	33	41	24	31
50     Electric energy generated and used.....do...	339	...	...	...	...	(D)	(D)	(D)

D Withheld to avoid disclosing figures for individual companies. <sup>†</sup>Revised.

NA Not available.

<sup>1</sup>Includes 1 combination open-pit and underground mine with a preparation plant.<sup>2</sup>Represents the product indicated by the name of the industry, reported in long tons for phosphate rock, sulfur, and pyrites; and in short tons for all other products.<sup>3</sup>Represents gross shipments.<sup>4</sup>Includes shipments by industries other than Potash, soda, and borate minerals, amounting to less than one percent of the total. Such shipments for the East and South are included with those for California.<sup>5</sup>Includes shipments by industries other than Rock salt, amounting to less than 10 percent of the total.<sup>6</sup>Except for Phosphate rock, represents the cost of minerals received for preparation. Information on shipments for preparation was not obtained for these industries.



## and Selected Types of Operation: 1958

1474—Potash, soda, borate minerals industry				1475—Phosphate rock industry						1476—Rock salt industry			1477—Sulfur industry	1479—Chemical-fertilizer minerals, neo industry	
United States, all operations	New Mexico	California	Producing under-ground mines with preparation plants <sup>1</sup>	United States, all operations	South Atlantic	East South Central (Tennessee)	Mountain	Producing open-pits with preparation plants	Producing preparations plants only	United States	Northeast and North Central	West South Central			
21	7	7	8	65	33	18	9	30	13	22	6	5	24	31	1
7	1	3	1	28	14	10	2	6	5	10	1	...	11	24	2
4	...	1	...	20	5	6	6	12	4	6	2	2	2	5	3
10	6	3	...	17	14	2	1	12	4	6	3	3	11	2	4
21	7	7	8	52	28	15	9	30	...	22	6	5	24	21	5
17	6	5	8	44	25	8	7	30	13	21	5	5	5	21	6
45,544	3,662	41,325	4,031	15,605	12,136	1,529	1,859	7,682	7,471	55,445	53,583	51,585	4,619	xxx	7
141,115	75,562	53,154	84,689	132,094	104,298	15,302	11,268	74,455	50,109	41,813	23,595	16,666	106,202	9,643	8
(D)	...	(D)	...	32,985	28,409	(D)	(D)	28,407	52	(D)	...	...	...	(D)	9
(D)	75,562	(D)	84,689	99,109	75,889	(D)	(D)	770,157	712,543	(D)	23,595	16,666	106,202	(D)	10
(D)	(D)	(D)	(D)	99,036	75,888	113,042	79,000	770,157	712,419	(D)	23,595	(D)	106,200	9,452	11
2,308	(D)	(D)	(D)	73	1	(D)	(D)	...	72	4,190	...	(D)	2	(D)	12
111,082	60,141	40,908	67,489	64,375	47,822	8,723	7,138	49,830	9,234	34,073	20,697	12,408	94,063	7,586	13
6,664	3,503	2,556	3,894	5,420	3,275	771	654	4,017	783	1,991	1,067	807	3,679	682	14
4,590	2,665	1,555	2,945	3,955	2,692	645	554	2,761	662	1,602	799	722	2,303	557	15
4,683	2,806	1,496	3,096	3,983	2,731	647	539	2,747	706	1,647	824	739	2,364	587	16
4,702	2,723	1,612	2,993	3,882	2,624	643	551	2,715	647	1,560	789	690	2,311	571	17
4,418	2,514	1,541	2,797	3,944	2,669	632	582	2,760	644	1,564	782	703	2,278	548	18
4,558	2,619	1,571	2,898	3,999	2,742	657	543	2,818	648	1,648	800	757	2,261	528	19
2,071	838	999	949	1,438	567	115	99	1,250	120	382	268	85	1,374	120	20
3	...	2	...	27	16	11	1	6	1	7	...	...	2	5	21
...	...	...	...	14	8	5	1	2	...	4	...	...	...	2	22
9,212	5,004	3,403	5,537	8,255	5,638	1,415	1,086	5,895	1,324	3,508	1,768	1,485	4,644	1,093	23
3,507	2,873	174	3,215	3,824	2,678	556	728	2,882	...	1,998	1,338	568	4,617	604	24
2,466	2,248	11	2,455	510	...	...	510	...	...	1,389	1,070	311	...	271	25
215	...	97	...	1,944	1,422	517	111	1,653	...	84	...	...	2,412	191	26
826	625	66	760	1,370	1,256	39	107	1,229	...	525	268	257	2,205	142	27
5,705	2,131	3,229	2,322	74,431	2,960	859	358	3,013	1,324	1,510	430	917	27	489	28
110	1	69	41	228	78	4	146	69	2	...	...	...	63	52	29
75,557	35,296	33,878	39,118	94,536	70,308	10,153	8,024	44,653	44,648	19,218	10,223	7,841	45,914	5,654	30
26,746	15,021	9,684	16,596	17,185	11,413	2,838	2,733	12,194	2,626	7,937	4,690	2,846	13,267	2,358	31
14,321	5,893	6,723	6,532	10,025	3,263	793	661	8,823	771	3,059	2,382	501	11,303	757	32
22,643	10,573	10,258	12,004	12,776	8,197	2,637	2,258	10,430	1,062	7,363	2,786	4,144	7,363	2,005	33
7,144	1,541	5,104	1,821	41,864	38,655	2,428	4,298	4,298	37,566	...	...	...	...	...	34
3,026	1,801	1,096	1,820	3,562	2,380	897	255	1,757	1,660	311	74	154	6,440	131	35
1,677	467	1,013	345	6,729	6,200	256	242	5,714	858	455	284	160	45	238	36
6,936	4,372	2,105	4,642	2,395	200	304	1,875	1,437	105	93	7	36	7,496	165	37
11,393	3,333	7,330	3,432	6,095	5,256	349	483	4,710	1,111	2,125	565	1,469	7,077	125	38
608	319	32	148	5,702	4,412	292	983	3,721	1,487	2,607	818	1,705	16,282	607	39
1,557	859	684	859	426	66	29	330	89	26	9	...	9	16,282	607	40
8,994	1,987	6,548	2,254	307	78	2	224	266	19	480	253	227			41
234	168	66	171	4,916	4,261	250	394	3,324	1,437	2,118	565	1,469			42
8,452	3,109	4,424	3,752	53	7	11	35	42	5	...	...	...			43
(NA)	(NA)	(NA)	(NA)	3,120	2,059	925	126	1,889	1,183	416	46	332	11,819	80	44
760	47	687	48	78	...	76	2	78	...	(NA)	(NA)	(NA)	(NA)	(NA)	45
22,153	9,196	10,158	11,275	902	867	8	25	291	605	20	14	...	7	10	46
107	25	72	28	972	...	837	135	757	215	1,074	2	1,012	38,105	101	47
312	193	107	194	92	133	45	148	44	44	70	1	32	321	47	48
248	(D)	(D)	(D)	609	556	37	15	523	73	34	21	13	2	20	49
...	...	...	...	...	...	...	...	...	...	(D)	(D)	(D)	69	...	50

<sup>7</sup>Net shipments by type of operation were computed by subtracting the cost of minerals received for preparation from the gross value of shipments.

<sup>8</sup>Includes figures for central office employees in Missouri.

<sup>9</sup>Number of production and development workers for all months was collected for the Barite and Fluorspar Industries only. For these industries the United States totals by months are:

Industry	January	February	March	April	May	June	July	August	September	October	November	December
Barite.....	877	850	839	803	741	716	713	746	733	744	786	786
Fluorspar....	1,064	1,073	1,077	1,059	1,076	1,092	1,100	1,049	1,045	1,016	983	947

<sup>10</sup>Undistributed fuels costs for all Chemical-Fertilizer Minerals Industries were approximately \$1,003 thousand. The quantity and cost of individual fuels was not obtained for the Barite and Fluorspar Industries. For the Phosphate Rock Industry the cost of fuels not distributed by type was \$110 thousand.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 4A.—Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
1472	BARITE:											
	Number of establishments.....	53	28	7	10	2	4	2	...	...	...	...
	All employees:											
	Number.....	929	54	58	197	(D)	620	(D)	...	...	...	...
	Payroll.....\$1,000..	3,402	174	238	<u>618</u>	(D)	<u>2,372</u>	(D)	...	...	...	...
	Production and develop- ment workers:											
	Number.....	781	49	49	173	(D)	510	(D)	...	...	...	...
	Man-hours.....1,000..	1,588	92	97	326	(D)	<u>1,073</u>	(D)	...	...	...	...
	Wages.....\$1,000..	2,698	157	193	<u>502</u>	(D)	<u>1,846</u>	(D)	...	...	...	...
	Value added in mining.....do....	11,321	468	629	<u>1,433</u>	(D)	<u>8,791</u>	(D)	...	...	...	...
	Value of shipments and receipts.....do....	13,768	547	751	<u>1,933</u>	(D)	<u>10,537</u>	(D)	...	...	...	...
	Capital expenditures.....do....	973	136	44	<u>345</u>	(D)	<u>448</u>	(D)	...	...	...	...
	Number of producing estab- lishments, by type of operation, total.....	48	23	7	10	2	4	2	...	...	...	...
	Mines only:											
	Open-pits.....	12	10	...	2	...	...	...	...	...	...	...
	Underground mines.....	1	1	...	...	...	...	...	...	...	...	...
	Mines with preparation plants:											
	Open-pits.....	29	9	6	8	1	4	1	...	...	...	...
	Combination open-pit and underground mines...	1	...	1	...	...	...	...	...	...	...	...
	Underground mines.....	4	2	...	...	1	...	1	...	...	...	...
	Preparation plants only....	1	1	...	...	...	...	...	...	...	...	...
1473	FLUORSPAR:											
	Number of establishments.....	55	23	12	9	3	5	2	1	...	...	...
	All employees:											
	Number.....	1,235	29	80	117	69	366	<u>574</u>	(D)	...	...	...
	Payroll.....\$1,000..	5,616	95	304	494	379	1,741	<u>2,603</u>	(D)	...	...	...
	Production and develop- ment workers:											
	Number.....	1,044	25	70	111	50	327	<u>461</u>	(D)	...	...	...
	Man-hours.....1,000..	2,105	33	127	213	101	721	<u>910</u>	(D)	...	...	...
	Wages.....\$1,000..	4,336	76	251	460	228	1,477	<u>1,844</u>	(D)	...	...	...
	Value added in mining.....do....	12,653	619	598	1,347	1,994	3,682	<u>4,413</u>	(D)	...	...	...
	Value of shipments and receipts.....do....	19,977	757	670	3,319	3,337	5,587	<u>6,307</u>	(D)	...	...	...
	Capital expenditures.....do....	1,566	31	157	125	162	757	<u>334</u>	(D)	...	...	...
	Number of producing estab- lishments, by type of operation, total.....	43	12	11	9	3	5	2	1	...	...	...
	Mines only:											
	Open-pits.....	4	2	2	...	...	...	...	...	...	...	...
	Combination open-pit and underground mines...	1	1	...	...	...	...	...	...	...	...	...
	Underground mines.....	11	2	4	4	1	...	...	...	...	...	...
	Mines with preparation plants:											
	Open-pits.....	6	2	1	2	1	...	...	...	...	...	...
	Combination open-pits and underground mines...	3	1	1	...	...	1	...	...	...	...	...
	Underground mines.....	14	4	2	1	...	4	2	1	...	...	...
	Preparation plants only....	4	...	1	2	1	...	...	...	...	...	...
1474	POTASH, SODA, BORATE MINERALS:											
	Number of establishments.....	21	3	3	1	2	2	1	4	4	1	...
	All employees:											
	Number.....	16,661	7	19	<u>64</u>	(D)	<u>361</u>	(D)	1,257	<u>4,428</u>	(D)	...
	Payroll.....	141,067	<u>519</u>	(D)	(D)	(D)	<u>2,083</u>	(D)	7,726	<u>26,717</u>	(D)	...

See footnotes at end of table.



Table 4A.—Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All estab- lish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
	POTASH, SODA, BORATE MINERALS—Continued											
	Production and develop- ment workers:											
	Number.....	4,590	69	(D)	(D)	(D)	265	(D)	944	3,312	(D)	...
	Man-hours.....1,000..	9,212	187	(D)	(D)	(D)	514	(D)	1,881	6,630	(D)	...
	Wages.....\$1,000..	26,746	355	(D)	(D)	(D)	1,371	(D)	5,625	19,395	(D)	...
	Value added in mining.....do....	111,082	1,793	(D)	(D)	(D)	6,318	(D)	27,587	75,384	(D)	...
	Value of shipments and receipts.....do....	141,115	2,085	...	(D)	(D)	6,804	(D)	34,777	97,449	(D)	...
	Capital expenditures...do....	11,393	627	(D)	(D)	(D)	2,401	(D)	1,495	6,870	(D)	...
	Number of producing estab- lishments, by type of operation, total.....	17	2	...	1	2	2	1	4	4	1	...
	Mines with preparation plants:											
	Open-pits.....	3	1	...	...	1	...	...	...	1	...	...
	Combination open-pit and underground mines...	1	...	...	1	...	...	...	...	...	...	...
	Underground mines.....	7	...	...	...	...	...	1	3	3	...	...
	Brine operations.....	6	1	...	...	1	2	...	1	...	1	...
1475	PHOSPHATE ROCK:											
	Number of establishments.....	65	9	10	9	8	12	15	1	1	...	...
	All employees:											
	Number.....	5,393	17	66	118	258	934	4,000	(D)	(D)	...	...
	Payroll.....\$1,000..	27,210	25	252	367	1,310	4,307	20,949	(D)	(D)	...	...
	Production and develop- ment workers:											
	Number.....	3,955	17	57	99	204	823	2,755	(D)	(D)	...	...
	Man-hours.....1,000..	8,255	23	121	208	430	1,746	5,727	(D)	(D)	...	...
	Wages.....\$1,000..	17,185	25	208	316	805	3,619	12,212	(D)	(D)	...	...
	Value added in mining.....do....	64,375	138	690	989	4,028	12,087	46,443	(D)	(D)	...	...
	Value of shipments and receipts.....do....	132,094	191	1,000	1,814	6,704	19,592	102,793	(D)	(D)	...	...
	Capital expenditures...do....	5,702	3	71	59	128	1,621	3,820	(D)	(D)	...	...
	Number of producing estab- lishments, by type of operation, total.....	63	8	9	9	8	12	15	1	1	...	...
	Mines only:											
	Open-pits.....	17	7	4	4	1	1	...	...	...	...	...
	Combination open-pit and underground mines...	1	...	...	...	...	...	1	...	...	...	...
	Underground mines.....	1	...	...	...	...	1	...	...	...	...	...
	Mines with preparation plants:											
	Open-pits.....	30	...	4	2	4	8	10	1	1	...	...
	Underground mines.....	1	...	...	...	...	1	...	...	...	...	...
	Preparation plants only....	13	1	1	3	3	1	4	...	...	...	...
1476	ROCK SALT:											
	Number of establishments.....	22	9	1	...	2	4	3	3	...	...	...
	All employees:											
	Number.....	1,984	16	(D)	...	399	(D)	1,569	(D)	...	...	...
	Payroll.....\$1,000..	10,996	51	(D)	...	1,969	(D)	8,976	(D)	...	...	...
	Production and develop- ment workers:											
	Number.....	1,602	15	(D)	...	296	(D)	1,291	(D)	...	...	...
	Man-hours.....1,000..	3,508	30	(D)	...	716	(D)	2,762	(D)	...	...	...
	Wages.....\$1,000..	7,937	46	(D)	...	1,244	(D)	6,647	(D)	...	...	...
	Value added in mining.....do....	34,073	100	(D)	...	4,319	(D)	29,654	(D)	...	...	...
	Value of shipments and receipts.....do....	41,813	197	(D)	...	5,803	(D)	35,813	(D)	...	...	...
	Capital expenditures...do....	2,607	1	...	...	161	(D)	2,445	(D)	...	...	...

See footnotes at end of table.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 4A.—Selected Statistics for Establishments Classified by Employment Size,  
for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—									
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
	ROCK SALT—Continued											
	Number of producing estab- lishments, by type of operation, total.....	21	8	1	...	2	4	3	3	...	...	...
	Mines with preparation plants:											
	Open-pits.....	5	3	1	...	...	1	...	...	...	...	...
	Combination underground mines and brine operations.....	2	...	...	...	...	...	1	1	...	...	...
	Underground mines.....	9	...	...	...	2	3	2	2	...	...	...
	Preparation plants only....	5	5	...	...	...	...	...	...	...	...	...
1477	SULFUR:											
	Number of establishments.....	24	8	1	2	...	2	9	1	1	...	...
	All employees:											
	Number.....	3,677	19	(D)	144	...	(D)	3,514	(D)	(D)	...	...
	Payroll.....\$1,000..	24,570	1,086	(D)	(D)	...	(D)	23,484	(D)	(D)	...	...
	Production and develop- ment workers:											
	Number.....	2,303	106	(D)	(D)	...	(D)	2,197	(D)	(D)	...	...
	Man-hours.....1,000..	4,644	223	(D)	(D)	...	(D)	4,421	(D)	(D)	...	...
	Wages.....\$1,000..	13,267	638	(D)	(D)	...	(D)	12,629	(D)	(D)	...	...
	Value added in mining.....do....	94,063	1,060	(D)	(D)	...	(D)	93,003	(D)	(D)	...	...
	Value of shipments and receipts.....do....	106,202	542	...	...	...	(D)	105,660	(D)	(D)	...	...
	Capital expenditures....do....	16,282	(D)	(D)	(D)	...	(D)	(D)	(D)	(D)	...	...
	Number of producing estab- lishments, by type of operation, total.....	19	7	...	...	...	1	9	1	1	...	...
	Mines only:											
	Open-pits.....	2	2	...	...	...	...	...	...	...	...	...
	Well operations.....	12	...	...	...	...	1	9	1	1	...	...
	Mines with preparation plants:											
	Open-pits.....	5	5	...	...	...	...	...	...	...	...	...
1479	CHEMICAL-FERTILIZER MINING, NEC:											
	Number of establishments.....	31	14	4	6	3	2	2	...	...	...	...
	All employees:											
	Number.....	677	25	30	82	125	415	(D)	...	...	...	...
	Payroll.....\$1,000..	3,115	86	100	427	636	1,866	(D)	...	...	...	...
	Production and develop- ment workers:											
	Number.....	557	24	22	62	98	351	(D)	...	...	...	...
	Man-hours.....1,000..	1,093	41	31	114	189	718	(D)	...	...	...	...
	Wages.....\$1,000..	2,358	86	70	310	433	1,459	(D)	...	...	...	...
	Value added in mining.....do....	7,586	224	220	2,491	1,601	3,050	(D)	...	...	...	...
	Value of shipments and receipts.....do....	9,643	269	333	2,910	2,096	4,035	(D)	...	...	...	...
	Capital expenditures....do....	607	49	11	160	22	365	(D)	...	...	...	...
	Number of producing estab- lishments, by type of operation, total.....	26	10	4	5	3	2	2	...	...	...	...
	Mines only (open-pits).....	5	5	...	...	...	...	...	...	...	...	...
	Mines with preparation plants:											
	Open-pits.....	5	...	...	1	2	1	1	...	...	...	...
	Underground mines.....	6	2	2	...	...	1	1	...	...	...	...
	Preparation plants only....	10	3	2	4	1	...	...	...	...	...	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes figures for separately reported central offices and related facilities not distributed by size.



Table 4B.—Number of Producing Establishments with Preparation Plants Reporting Specified Mineral Preparation Methods, Classified by Employment Size, for the United States: 1958

Ind. code	Industry and mineral preparation method	All establishments, total	Establishments with an average of—								
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-245 employees	250-499 employees	500-999 employees	1,000-2,499 employees
1472	BARITE:										
	Number of establishments with preparation plants.....	35	12	7	8	2	4	2	...	...	...
	Number of establishments reporting specified preparation method: <sup>1</sup>										
	Washing.....	26	9	5	6	2	4	...	...	...	...
	Crushing, grinding, or pulverizing....	17	5	2	3	2	4	1	...	...	...
	Screening.....	16	5	2	4	2	3	...	...	...	...
	Flotation and gravity.....	9	2	1	1	2	1	2	...	...	...
	Drying.....	6	...	1	1	1	2	1	...	...	...
	Air separation.....	1	...	...	1	...	...	...	...	...	...
1473	FLUORSPAR:										
	Number of establishments with preparation plants.....	27	7	5	5	2	5	2	1	...	...
	Number of establishments reporting specified preparation method: <sup>1</sup>										
	Crushing, grinding, or pulverizing....	20	5	3	5	1	4	1	1	...	...
	Flotation and gravity.....	17	2	2	3	2	5	2	1	...	...
	Screening.....	11	4	1	3	1	2	...	...	...	...
	Washing.....	6	2	1	2	1	...	...	...	...	...
	Drying.....	5	...	...	1	...	3	1	...	...	...
	Air separation.....	1	...	...	...	...	...	1	...	...	...
1474	POTASH, SODA, BORATE MINERALS:										
	Number of establishments with preparation plants.....	17	2	...	1	2	2	1	4	4	1
	Number of establishments reporting specified preparation method: <sup>1</sup>										
	Carbonization, crystallization, or evaporation.....	10	2	...	...	2	1	...	3	2	...
	Crushing, grinding, or pulverizing....	9	...	...	1	...	...	1	3	4	...
	Flotation concentration.....	7	...	...	...	...	1	1	2	3	...
	Screening.....	6	...	...	1	...	...	1	2	2	...
	Washing.....	2	...	...	...	...	...	1	...	...	1
1475	PHOSPHATE ROCK:										
	Number of establishments with preparation plants.....	44	1	5	5	7	10	14	1	1	...
	Number of establishments reporting specified preparation method: <sup>1</sup>										
	Crushing, grinding, or pulverizing....	26	1	5	4	3	5	7	1	...	...
	Washing.....	22	...	...	...	5	5	10	1	1	...
	Drying.....	19	...	1	2	3	4	8	1	...	...
	Flotation concentration.....	12	...	...	...	...	3	7	1	1	...
	Calcining.....	3	...	...	...	...	1	2	...	...	...
	Spiraling.....	2	...	...	...	1	...	...	...	1	...
	Air separation.....	2	...	1	...	...	...	...	1	...	...
	Table concentration.....	2	...	...	...	...	1	1	...	...	...
	Nodulizing.....	1	...	...	...	...	...	1	...	...	...
1476	ROCK SALT:										
	Number of establishments with preparation plants.....	21	8	1	...	2	4	3	3	...	...
	Number of establishments reporting specified preparation method: <sup>1</sup>										
	Crushing, grinding, or pulverizing....	21	8	1	...	2	4	3	3	...	...
	Screening.....	16	5	1	...	2	2	3	3	...	...
	Flotation concentration.....	7	5	...	...	1	1	...	...	...	...
	Evaporation.....	3	...	...	...	...	...	2	1	...	...
	Drying.....	1	...	...	...	...	1	...	...	...	...
1479	CHEMICAL-FERTILIZER MINING, NEC:										
	Number of establishments with preparation plants.....	21	5	4	5	3	2	2	...	...	...
	Number of establishments reporting specified preparation method: <sup>1</sup>										
	Crushing, grinding, or pulverizing....	10	2	1	1	2	2	2	...	...	...
	Natural-gas beneficiation.....	10	3	2	4	1	...	...	...	...	...
	Screening.....	6	1	1	1	...	1	2	...	...	...
	Washing.....	2	...	...	...	1	...	1	...	...	...
	Flotation.....	2	...	...	...	...	...	2	...	...	...
	Drying.....	1	1	...	...	...	...	...	...	...	...

<sup>1</sup>Some establishments reported more than one mineral preparation method used and are included in the line for each method reported.

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 5.-Industry-Product Analysis, Summary of Industry Shipments and Receipts and Net Shipments of Primary Products for the United States: 1958 and 1954

Ind. code	Industry	Value of shipments and receipts of establishments classified in the industry					Value of net shipments of primary products of the industry shipped by establishments in all industries		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing (\$1,000)	Total (produced in all industries)	Produced in this industry	Produced in other industries
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1472	Barite.....1958..	13,768	(D)	(D)	(D)	...	31,868	13,434	18,434
	.....1954..	18,269	(D)	(D)	(D)	(D)	35,390	<sup>1</sup> 18,298	<sup>2</sup> 17,092
1473	Fluorspar.....1958..	19,977	18,781	(D)	(D)	...	15,443	15,443	...
	.....1954..	15,461	14,502	(D)	(D)	...	12,774	12,774	...
1474	Potash, soda, borate minerals.....1958..	141,115	138,807	2,308	...	...	138,413	(D)	(D)
	.....1954..	107,757	105,452	(D)	(D)	...	104,070	(D)	(D)
1475	Phosphate rock.....1958..	132,094	131,969	(D)	(D)	52	99,036	99,036	...
	.....1954..	117,976	117,909	(D)	(D)	...	82,516	82,516	...
1476	Rock salt.....1958..	41,813	37,623	4,190	...	...	40,525	(D)	(D)
	.....1954..	35,658	30,769	4,812	...	77	32,962	30,769	2,193
1477	Sulfur.....1958..	106,202	106,200	2	...	...	106,200	106,200	...
	.....1954..	140,685	140,661	24	...	...	140,661	140,661	...
1479	Chemical-fertilizer mining, nec.....1958..	9,643	(D)	(D)	(D)	...	21,690	9,452	12,238
	.....1954..	21,780	(D)	(D)	(D)	(D)	20,448	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes barite produced at establishments classified in other mineral industries.<sup>2</sup>Represents barite processed at establishments classified in the manufacturing industries only.



Table 6A.—Primary Products of the Chemical and Fertilizer Minerals Industries Produced in all Industries, by Regions and States: 1958 and 1954

Product, region, and State	1958			1954		
	Total production	Total shipments (including interplant transfers) or receipts		Total production	Total shipments (including interplant transfers) or receipts	
		Quantity (1,000 tons) <sup>1</sup>	Value (\$1,000)		Quantity (1,000 tons) <sup>1</sup>	Value (\$1,000)
BARITE						
United States:						
Crude barite:						
Production and shipments.....	608	148	1,402	960	265	2,552
Mined and prepared at same establishment.....	563	xxx	xxx	857	xxx	xxx
Prepared barite (crushed or ground, including flotation concentrates):						
Processed at establishments classified in the barite industry <sup>2</sup> .....	470	<sup>3</sup> 455	<sup>3</sup> 12,032	<sup>4</sup> 628	638	15,746
Processed at establishments classified in other mineral industries and in the manufacturing industries.....	(NA)	665	18,434	(NA)	607	17,092
North Central:						
Crude barite:						
Production and shipments.....	148	53	772	(NA)	(NA)	(NA)
Mined and prepared at same establishment.....	158	xxx	xxx	309	xxx	xxx
Prepared barite (crushed or ground, including flotation concentrates) <sup>2</sup> .....	(NA)	202	5,728	(NA)	(NA)	(NA)
South:						
Crude barite:						
Production and shipments.....	394	28	390	(NA)	( <sup>5</sup> )	(NA)
Mined and prepared at same establishment.....	375	xxx	xxx	430	xxx	xxx
Prepared barite (crushed or ground, including flotation concentrates):						
Processed at establishment classified in the barite industry <sup>2</sup> .....	271	<sup>3</sup> 259	<sup>3</sup> 6,923	(NA)	<sup>5</sup> 452	(NA)
Processed at establishments classified in other mineral industries and in the manufacturing industries.....	(NA)	601	16,451	(NA)	(NA)	(NA)
West:						
Crude barite:						
Production and shipments.....	66	67	240	(NA)	(NA)	(NA)
Mined and prepared at same establishment.....	30	xxx	xxx	118	xxx	xxx
Prepared barite (crushed or ground, including flotation concentrates) <sup>2</sup> .....	(NA)	<sup>3</sup> 58	<sup>3</sup> 1,364	(NA)	(NA)	(NA)
FLUORSPAR						
United States:						
Crude fluorspar:						
Production and shipments.....	836	96	1,785	656	122	1,820
Mined and prepared at same establishment.....	734	xxx	xxx	517	xxx	xxx
Received from other establishments for preparation.....	xxx	187	3,338	xxx	112	1,728
Prepared fluorspar (crushed or ground, including flotation concentrates) production and shipments.....	368	366	16,996	253	255	12,682
Net fluorspar shipments <sup>3</sup> .....	xxx	275	15,443	xxx	265	12,774
East North Central (Illinois):						
Crude fluorspar:						
Production and shipments.....	480	58	869	(NA)	(NA)	(NA)
Mined and prepared at same establishment.....	403	xxx	xxx	(NA)	(NA)	(NA)
Prepared fluorspar (crushed or ground, including flotation concentrates) production and shipments.....	163	162	7,862	(NA)	(NA)	(NA)
Net fluorspar shipments <sup>3</sup> .....	xxx	150	7,680	xxx	104	(NA)
South:						
Crude fluorspar:						
Production and shipments.....	80	( <sup>6</sup> )	( <sup>6</sup> )	(NA)	( <sup>5</sup> )	( <sup>5</sup> )
Mined and prepared at same establishment.....	71	xxx	xxx	12	xxx	xxx
Prepared fluorspar (crushed or ground, including flotation concentrates) production and shipments.....	82	84	3,822	(NA)	<sup>5</sup> 85	<sup>5</sup> 71,949
Net fluorspar shipments <sup>3</sup> .....	xxx	( <sup>6</sup> )	( <sup>6</sup> )	xxx	41	71,380
West:						
Crude fluorspar:						
Production and shipments.....	276	<sup>6</sup> 38	<sup>6</sup> 916	(NA)	(NA)	(NA)
Mined and prepared at same establishment.....	260	xxx	xxx	(NA)	(NA)	(NA)
Prepared fluorspar (crushed or ground, including flotation concentrates) production and shipments.....	123	120	5,312	(NA)	(NA)	(NA)
Net fluorspar shipments <sup>3</sup> .....	xxx	<sup>6</sup> 125	<sup>6</sup> 7,763	xxx	120	(NA)
POTASH, SODA, BORATE MINERALS						
United States:						
Potassium salts:						
Crude salts.....	<sup>8</sup> 12,224	( <sup>9</sup> )	( <sup>9</sup> )	<sup>8</sup> 9,976	(NA)	(NA)
Processed or refined salts.....	3,710	<sup>9</sup> 4,002	<sup>8</sup> 82,468	3,323	3,271	71,836
Natural sodium carbonates.....	(NA)	639	17,175	545	527	13,535
Natural sodium sulfate.....	(NA)	344	6,495	252	251	3,883
Boron compounds <sup>3</sup> .....	(NA)	<sup>10</sup> 559	<sup>10</sup> 32,275	917	<sup>10</sup> 556	<sup>10</sup> 14,816
PHOSPHATE ROCK						
United States:						
Production and shipments:						
Crude phosphate rock (ore or matrix), total.....	46,031	3,162	8,922	46,398	2,871	8,995
Shipped to washer or concentrator.....	xxx	1,817	3,781	xxx	(NA)	(NA)
All other shipments.....	xxx	1,345	5,141	xxx	(NA)	(NA)
Washed or concentrated phosphate rock, total.....	12,636	8,492	41,607	11,303	10,149	36,199
Shipped to drier.....	xxx	6,049	29,152	xxx	(NA)	(NA)
All other shipments.....	xxx	2,443	12,455	xxx	(NA)	(NA)

See footnotes at end of table.

Table 6A.—Primary Products of the Chemical and Fertilizer Minerals Industries Produced in all Industries, by Regions and States: 1958 and 1954—Continued

Product, region, and State	1958			1954		
	Total production	Total shipments (including interplant transfers) or receipts		Total production	Total shipments (including interplant transfers) or receipts	
		Quantity (1,000 tons) <sup>1</sup>	Value (\$1,000)		Quantity (1,000 tons) <sup>1</sup>	Value (\$1,000)
PHOSPHATE ROCK—Continued						
United States—Continued						
Production and shipments—Continued						
Dried, calcined, or sintered phosphate rock.....	11,747	11,817	81,440	10,815	10,571	72,715
Net shipments <sup>11</sup> .....	xxx	15,605	99,036	xxx	13,386	82,516
Phosphate rock washed and dried:						
Produced and used at same establishment.....	42,670	xxx	xxx	44,661	xxx	xxx
Received from other establishments for washing or drying.....	xxx	8,289	41,864	xxx	10,204	35,393
East and South:						
Production and shipments:						
Crude phosphate rock (ore or matrix).....	43,727	1,529	2,190	(NA)	(NA)	(NA)
Washed or concentrated phosphate rock.....	12,035	19,667	118,513	(NA)	(NA)	(NA)
Dried, calcined, or sintered phosphate rock.....	11,242			(NA)	(NA)	(NA)
Net shipments <sup>11</sup> .....	xxx	13,746	90,036	xxx	11,788	(NA)
Phosphate rock washed or dried.....	1250,121	xxx	xxx	1253,947	xxx	xxx
South Atlantic (Florida):						
Production and shipments:						
Crude phosphate rock (ore or matrix).....	40,115	80	557	(NA)	(NA)	(NA)
Washed or concentrated phosphate rock.....	10,669	7,645	37,733	(NA)	(NA)	(NA)
Dried, calcined, or sintered phosphate rock.....	10,227	10,273	66,003	(NA)	(NA)	(NA)
Net shipments <sup>11</sup> .....	xxx	12,136	75,888	xxx	9,641	1362,229
Phosphate rock washed or dried:						
Produced and used at same establishment.....	40,047	xxx	xxx	41,909	xxx	xxx
Received from other establishments for washing or drying.....	xxx	7,481	38,655	xxx	9,313	32,212
East South Central (Tennessee):						
Production and shipments:						
Crude phosphate rock (ore or matrix).....	3,612	1,449	1,633	(NA)	(NA)	(NA)
Washed or concentrated phosphate rock.....	1,366	1,668	13,667	(NA)	(NA)	(NA)
Dried, calcined, or sintered phosphate rock.....	934			(NA)	(NA)	(NA)
Net shipments <sup>11</sup> .....	xxx	1,529	13,042	xxx	2,147	(NA)
Phosphate rock washed or dried:						
Produced and used at same establishment.....	1,904	xxx	xxx	122,725	xxx	xxx
Received from other establishments for washing or drying.....	xxx	596	2,428	xxx	(12)	(D)
Mountain:						
Production and shipments:						
Crude phosphate rock (ore or matrix).....	2,304	1,633	6,732	(NA)	(NA)	(NA)
Washed or concentrated phosphate rock.....	601	642	4,534	(NA)	(NA)	(NA)
Dried, calcined, or sintered phosphate rock.....	505			(NA)	(NA)	(NA)
Net shipments <sup>11</sup> .....	xxx	1,859	9,000	xxx	1,599	(NA)
Phosphate rock washed or dried.....	12838	xxx	xxx	12918	xxx	xxx
ROCK SALT						
United States, total.....	(NA)	35,445	340,525	(NA)	4,879	32,962
Northeast and North Central.....	(NA)	3,583	24,495	(NA)	3,432	21,772
West South Central.....	(NA)	1,585	14,638	(NA)	1,447	11,190
West.....	(NA)	3277	1,392	(NA)		
SULFUR						
Native sulfur and sulfur ore, total.....	4,654	4,619	106,200	5,729	5,510	140,661
Frasch process sulfur.....	4,642	4,607	105,995	(NA)	(NA)	(NA)
Sulfur ore.....	1412	1412	205	(NA)	(NA)	(NA)
CHEMICAL-FERTILIZER MINERALS, NEC						
Pyrites.....	1,025	377	2,392	912	934	7,665
Recovered elemental sulfur, total.....	669	628	16,465	366	333	9,341
From natural gas.....	349	332	8,310	(NA)	(NA)	(NA)
From refinery gas and crude oil.....	320	296	8,155	(NA)	(NA)	(NA)
Miscellaneous chemical and fertilizer minerals <sup>3</sup> .....	(NA)	(NA)	2,833	(NA)	(NA)	3,442

D Withheld to avoid disclosing figures for individual companies. NA Not available. xxx Not applicable. <sup>1</sup>Revised.

<sup>1</sup>Represents long tons for phosphate rock, sulfur, and pyrites; and short tons for all other products. <sup>2</sup>Includes some barite that was prepared by washing only. <sup>3</sup>Represents net shipments obtained by subtracting minerals received for preparation from gross shipments. <sup>4</sup>Represents production of crushed barite only. <sup>5</sup>Shipments of crude minerals are included with shipments of prepared minerals. <sup>6</sup>Figures for the South are included with those for the West. <sup>7</sup>Includes value of secondary products and receipts for services in the Fluorspar Industry. <sup>8</sup>Represents production from underground mines only. Does not include production from well brines or dry-lake brines; only shipments were reported for such operations. <sup>9</sup>Crude salts are included with processed or refined salts, amounting to less than 0.5 percent of the total. <sup>10</sup>The 1958 figure contains a higher proportion of refined borates than in 1954, which largely accounts for the higher value in the later year. <sup>11</sup>For 1958, represents "All other shipments" of Crude phosphate rock and washed or concentrated phosphate rock plus shipments of Dried, calcined, or sintered phosphate rock. For 1954, represents gross shipments less phosphate rock received for washing or drying. <sup>12</sup>Figure for phosphate rock received from other establishments for washing or drying is included with phosphate rock produced and used at same establishment. <sup>13</sup>Includes value of secondary products and receipts for services of the Phosphate Rock Industry, amounting to less than 0.1 percent of the total. <sup>14</sup>Estimated to contain about 4 thousand tons of sulfur.



Table 6B.—Shipments of Selected Primary Products of the Chemical and Fertilizer Minerals Industries  
Distributed by Value per Ton: 1958

Product and average value per ton f.o.b. mine or plant <sup>1</sup>	Quantity shipped		Value of shipments	
	Tons <sup>2</sup> (1,000)	Percent of total quantity	Value (\$1,000)	Percent of total value
BARITE				
Crude barite, total.....	148	100.0	1,402	100.0
Less than \$10.00.....	66	44.6	220	15.7
\$10.00-\$11.19.....	37	25.0	384	27.4
\$11.20 and over.....	45	30.4	798	56.9
Prepared barite from establishments classified in the Barite industry (net shipments), total.....	455	100.0	12,032	100.0
Less than \$16.00.....	33	7.3	335	2.8
\$16.00-\$20.49.....	25	5.5	439	3.7
\$20.50-\$25.99.....	109	24.0	2,484	20.6
\$26.00 and over.....	288	63.2	8,774	72.9
FLUORSPAR				
Crude fluorspar, total.....	96	100.0	1,785	100.0
Less than \$16.00.....	26	27.1	260	14.6
\$16.00-\$20.49.....	50	52.1	887	49.7
\$20.50 and over.....	20	20.8	638	35.7
Prepared fluorspar, total.....	366	100.0	16,996	100.0
Less than \$38.00.....	77	21.0	2,581	15.2
\$38.00-\$54.49.....	92	25.2	3,789	22.3
\$54.50 and over.....	197	53.8	10,626	62.5
PHOSPHATE ROCK				
Dried, calcined, or sintered phosphate rock, total.....	11,817	100.0	81,440	100.0
Less than \$6.95.....	6,570	55.6	38,985	47.9
\$6.95-\$7.84.....	3,975	33.6	28,443	34.9
\$7.85-\$9.99.....	337	2.9	2,913	3.6
\$10.00 and over.....	935	7.9	11,099	13.6
ROCK SALT				
Rock salt (net shipments), total.....	5,445	100.0	40,525	100.0
Less than \$6.14.....	625	11.5	2,699	6.6
\$6.14-\$8.84.....	4,425	81.3	31,919	78.8
\$8.85 and over.....	395	7.2	5,907	14.6
ELEMENTAL SULFUR				
Elemental sulfur from natural gas, total.....	332	100.0	8,310	100.0
Less than \$20.50.....	32	9.6	479	5.8
\$20.50-\$22.99.....	47	14.2	1,004	12.1
\$23.00-\$25.99.....	182	54.8	4,400	52.9
\$26.00 and over.....	71	21.4	2,427	29.2

<sup>1</sup>The "average values" are based on the entire shipments of the specified product by each establishment. Thus they are representative of varied average prices among establishments but not of variations within an establishment.

<sup>2</sup>For barite, fluorspar, and rock salt represents short tons; for phosphate rock and elemental sulfur, represents long tons.

Table 7.—Supplies Used in the Chemical and Fertilizer Minerals Industries: 1958 and 1954

(Detailed figures for the quantity and cost of supplies used were not obtained for these industries. For the total cost of supplies used, see table 3. For the quantity and cost of minerals received for preparation, see table 6A. For the quantity and total cost of purchased fuels and electricity used, see table 3.)

## MINERAL INDUSTRIES-INDUSTRY STATISTICS

Table 8.—General Statistics for Establishments in the United States Classified by Output Per Man-Hour, by Selected Types of Operation: 1958

Ind. code	Industry, type of operation, and tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1472	BARITE:									
	All establishments, total.....	53	929	3,402	781	1,588	2,698	11,321	13,768	973
	Less than 0.20.....	7	43	125	37	71	92	99	133	62
	0.20-0.39.....	10	405	1,610	318	726	1,253	4,087	5,140	353
	0.40-0.59.....	7	299	972	256	399	736	4,575	5,191	125
	0.60 and over.....	8	40	166	38	67	157	723	804	34
	Undistributed <sup>2</sup> .....	21	142	529	132	325	460	1,837	2,500	399
1473	FLUORSPAR:									
	All establishments, total.....	55	1,235	5,616	1,044	2,105	4,336	12,653	19,977	1,566
	Less than 0.20.....	8	658	2,989	542	1,089	2,258	4,957	7,031	453
	0.20-0.39.....	4	74	310	70	160	276	774	1,439	425
	0.40-0.99.....	4	56	247	43	89	165	549	2,716	26
	1.00 and over.....	6	74	355	71	139	321	833	1,067	44
	Undistributed <sup>2</sup> .....	33	373	1,715	318	628	1,316	5,540	7,724	618
1474	POTASH, SODA, BORATE MINERALS:									
	All establishments, total.....	21	6,661	41,067	4,590	9,212	26,746	111,082	141,115	11,393
	Less than 0.50.....	7	2,115	13,145	1,555	3,403	9,672	40,949	53,200	7,328
	0.50-0.69.....	5	2,346	13,056	1,813	3,460	9,831	35,247	44,483	2,007
	0.70-1.29.....	5	1,655	10,685	1,216	2,337	7,209	34,745	43,432	1,597
	Undistributed <sup>2</sup> .....	4	545	4,181	6	12	34	141	...	461
1475	PHOSPHATE ROCK:									
	All establishments, total.....	65	5,393	27,210	3,955	8,255	17,185	64,375	132,094	5,702
	Less than 0.80.....	8	363	1,325	330	776	1,171	1,903	3,038	12
	0.80-1.19.....	7	104	390	73	137	239	957	1,245	26
	1.20-1.59.....	5	498	1,865	438	840	1,583	4,830	6,671	329
	1.60-2.39.....	5	745	3,834	622	1,343	3,074	10,217	16,550	847
	2.40-3.99.....	11	1,555	7,395	1,242	2,686	5,501	25,714	37,520	2,552
	4.00 and over.....	11	797	3,640	677	1,374	2,761	10,882	51,630	1,532
	Undistributed <sup>2</sup> .....	18	1,331	8,761	573	1,099	2,856	9,872	15,440	404
	Producing open-pits with preparation plants, total.....	30	4,011	21,017	2,761	5,895	12,194	49,887	74,455	3,721
	Less than 0.80.....	5	327	1,224	294	709	1,070	1,788	2,688	3
	0.80-1.59.....	6	420	1,637	341	660	1,261	4,225	5,936	267
	1.60-2.39.....	5	745	3,834	622	1,343	3,074	10,217	16,550	847
	2.40 and over.....	10	1,577	7,539	1,261	2,724	5,600	27,326	39,447	2,552
	Undistributed <sup>2</sup> .....	4	942	6,783	243	459	1,189	6,331	9,834	52
1476	ROCK SALT:									
	All establishments, total.....	22	1,984	10,996	1,602	3,508	7,937	34,073	41,813	2,607
	Less than 0.90.....	8	639	3,078	563	1,253	2,510	9,317	12,483	287
	0.90-1.39.....	4	336	1,556	309	711	1,366	4,147	5,474	1,444
	1.40 and over.....	4	791	4,811	726	1,536	4,050	20,567	23,753	875
	Undistributed <sup>2</sup> .....	6	218	1,551	4	8	11	42	103	1

<sup>1</sup>Represents tons of primary products of the industry shipped per man-hour worked by production and development workers. For phosphate rock represents long tons, for all other products represents short tons.

<sup>2</sup>Represents nonproducing establishments and establishments with no production or development worker man-hours, with man-hours spent on exploration or development work amounting to 30 percent or more of total man-hours of production or development workers, with cost of contract work amounting to 30 percent or more of production and development workers wages, or with number of working proprietors amounting to 30 percent or more of number of production and development workers. Also, includes figures for the number and payroll of employees at separately reported central offices and related facilities.

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Divisions: 1958

Ind. code	Industry, division, and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1472	BARITE:									
	United States, total.....	53	929	3,402	781	1,588	2,698	11,321	13,768	973
	0.10-0.19.....	9	176	579	159	315	504	3,888	4,324	141
	0.20-0.29.....	7	281	993	246	465	781	4,286	5,270	185
	0.30-0.49.....	12	192	705	174	366	604	1,624	2,044	374
	0.50-0.69.....	6	220	925	154	350	653	1,418	1,968	156
	0.70 and over.....	11	42	164	31	73	123	102	144	60
	Undistributed <sup>2</sup> .....	8	18	36	17	19	33	3	18	57

See footnotes at end of table.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Divisions: 1958—Continued

Ind. code	Industry, division, and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1473	FLUORSPAR:									
	United States, total.....	55	1,235	5,616	1,044	2,105	4,336	12,653	19,977	1,566
	Less than 0.10.....	5	30	155	26	44	105	2,141	2,440	151
	0.10-0.29.....	4	32	138	30	63	118	720	1,872	37
	0.30-0.39.....	8	213	977	191	401	811	2,786	3,629	244
	0.40-0.49.....	7	243	1,223	224	511	1,075	2,827	4,508	591
	0.50-0.59.....	7	301	1,305	269	524	1,111	2,390	3,584	295
	0.60 and over.....	9	362	1,502	277	496	1,000	1,776	2,758	196
	Undistributed <sup>2</sup> .....	15	54	316	27	66	116	13	1,186	52
1474	POTASH, SODA, BORATE MINERALS:									
	United States, total.....	21	6,661	41,067	4,590	9,212	26,746	111,082	141,115	11,393
	0.10-0.29.....	6	1,430	9,362	1,131	2,400	6,971	39,221	43,886	5,464
	0.30-0.39.....	6	2,512	14,543	2,062	3,826	11,090	41,499	53,216	2,336
	0.40-0.59.....	5	2,174	12,981	1,391	2,974	8,651	30,221	44,013	3,132
	0.60 and over.....	2								
	Undistributed <sup>2</sup> .....	2	545	4,181	6	12	34	141	...	461
1475	PHOSPHATE ROCK:									
	United States, total.....	65	5,393	27,210	3,955	8,255	17,185	64,375	132,094	5,702
	Less than 0.20.....	8	392	1,818	351	709	1,544	12,614	19,051	532
	0.20-0.29.....	12	1,136	5,481	891	1,901	3,973	22,198	33,531	477
	0.30-0.39.....	10	1,235	5,510	1,050	2,149	4,568	16,302	31,685	2,471
	0.40-0.49.....	8	324	1,747	271	571	1,303	4,007	6,826	380
	0.50-0.59.....	5	95	342	92	171	323	605	1,104	72
	0.60-0.69.....	7	272	1,044	237	510	802	1,646	2,308	66
	0.70-0.79.....	6								
	0.80-0.89.....	1								
	1.00 and over.....	5	1,939	11,268	1,063	2,244	4,672	7,003	37,589	1,704
	Undistributed <sup>2</sup> .....	3								
	South Atlantic, total.....	33	3,259	14,676	2,692	5,638	11,413	47,822	104,298	4,412
	Less than 0.30.....	12	1,398	6,711	1,129	2,378	5,027	32,367	49,198	937
	0.30-0.39.....	5	855	3,458	727	1,472	2,876	10,150	20,672	1,761
	0.40-0.49.....	1								
	0.50-0.59.....	2	31	110	25	48	74	216	317	16
	0.60-0.69.....	2								
	0.70-0.79.....	4								
	0.80-0.89.....	1	975	4,397	811	1,740	3,436	5,089	34,111	1,698
	1.00 and over.....	3								
	Undistributed <sup>2</sup> .....	3								
	East South Central, total.....	18	760	3,631	645	1,415	2,838	8,723	15,302	292
	0.10-0.39.....	6	301	1,741	252	558	1,437	5,432	9,749	115
	0.40-0.49.....	6	139	596	123	262	408	1,314	2,541	111
	0.50-0.59.....									
	0.60-0.69.....	6	320	1,294	270	595	993	1,977	3,012	66
	0.70-0.79.....									
1476	ROCK SALT:									
	United States, total.....	22	1,984	10,996	1,602	3,508	7,937	34,073	41,813	2,607
	Less than 0.30.....	7	1,032	4,997	937	2,014	4,094	22,203	27,208	2,154
	0.30-0.39.....	4	351	2,220	335	626	2,070	7,332	8,878	247
	0.40-0.69.....	5	347	2,068	310	839	1,724	4,287	5,221	201
	0.70-0.79.....	3								
	Undistributed <sup>2</sup> .....	3	254	1,711	20	29	49	251	506	5
1477	SULFUR:									
	United States, total.....	24	3,677	24,570	2,303	4,644	13,267	94,063	106,202	16,282
	Less than 0.20.....	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	0.20-0.29.....	6	685	4,176	537	1,106	3,055	17,582	20,397	(D)
	0.40-0.49.....	2								
	0.50-0.59.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	1.00 and over.....	3								
	Undistributed <sup>2</sup> .....	6								
1479	CHEMICAL-FERTILIZER MINING, NEC:									
	United States, total.....	31	677	3,115	557	1,093	2,358	7,586	9,643	607
	Less than 0.20.....	6								
	0.20-0.29.....	4	114	698	89	180	505	3,850	4,622	22
	0.30-0.59.....	4								
	0.60-0.69.....	4	252	1,190	198	408	851	2,364	3,164	339
	0.70-0.79.....	3								
	0.80-0.99.....	2	303	1,207	263	495	982	1,393	1,854	221
	1.00 and over.....	3								
	Undistributed <sup>2</sup> .....	5	8	20	7	10	20	( <sup>3</sup> )	3	25

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Note that in computing these ratios contract employment serving the establishment is excluded. The cost of contract work expressed as a percent of payroll for 1958 was: For Barite, 11 percent; for Fluorspar, 20 percent; for Potash, soda, borate minerals, 4 percent; for Phosphate rock, 9 percent; for Rock salt, 3 percent; for Sulfur, 31 percent; for Chemical-fertilizer mining, nec, 5 percent. <sup>2</sup>Represents establishments with zero or negative value added; establishments with no employees; and for number of employees and payroll, figures for separately reported central offices and related facilities. <sup>3</sup>Not shown since cost of supplies, fuels, purchased electricity, contract work, and purchased machinery exceeds value of shipments and receipts plus capital expenditures.

Table 10.--Value Added in Mining Per Employee by Size of Establishment for the United States: 1958

Ind. Code	Industry and value added per employee class <sup>1</sup>	Number of--		Number of establishments with average employment of--						
		Establish- ments	Employees	0-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1472	BARITE, TOTAL.....	53	929	45	2	4	2	...	...	...
	Less than \$3,000.....	8	31	8	...	...	...	...	...	...
	\$3,000-\$3,999.....	6	35	6	...	...	...	...	...	...
	\$4,000-\$4,999.....	4	21	4	...	...	...	...	...	...
	\$5,000-\$6,999.....	4	35	4	...	...	...	...	...	...
	\$7,000-\$7,999.....	6	272	3	1	1	1	...	...	...
	\$8,000-\$9,999.....	4	65	3	1	...	...	...	...	...
	\$10,000-\$12,499.....	3	25	3	...	...	...	...	...	...
	\$12,500-\$19,999.....	6	272	4	...	1	1	...	...	...
	\$20,000 and over.....	7	159	5	...	2	...	...	...	...
	Undistributed <sup>2</sup> .....	5	14	5	...	...	...	...	...	...
1473	FLUORSPAR, TOTAL.....	55	1,235	44	3	5	2	1	...	...
	Less than \$3,000.....	5	16	5	...	...	...	...	...	...
	\$3,000-\$5,999.....	6	350	5	...	...	...	1	...	...
	\$6,000-\$7,999.....	5	206	3	...	1	1	...	...	...
	\$8,000-\$8,999.....	3	90	2	...	1	...	...	...	...
	\$9,000-\$9,999.....	5	77	4	...	1	...	...	...	...
	\$10,000-\$12,499.....	5	116	4	...	1	...	...	...	...
	\$12,500-\$19,999.....	6	284	3	1	1	1	...	...	...
	\$20,000 and over.....	7	44	6	1	...	...	...	...	...
	Undistributed <sup>2</sup> .....	13	52	12	1	...	...	...	...	...
1474	POTASH, SODA, BORATE MINERALS, TOTAL.....	21	36,661	7	2	2	1	4	4	1
	Less than \$3,000.....	5	17	5	...	...	...	...	...	...
	\$12,500-\$14,999.....	4	3,152	...	...	...	1	...	2	1
	\$15,000-\$17,499.....	3	302	2	...	...	...	1	...	...
	\$17,500-\$19,999.....	3	1,235	...	...	1	...	1	1	...
	\$20,000 and over.....	6	1,430	...	2	1	...	2	1	...
1475	PHOSPHATE ROCK, TOTAL.....	65	5,393	28	8	12	15	1	1	...
	Less than \$3,000.....	4	36	3	1	...	...	...	...	...
	\$3,000-\$4,999.....	8	365	6	...	1	1	...	...	...
	\$5,000-\$5,999.....	4	408	1	...	1	2	...	...	...
	\$6,000-\$6,999.....	8	794	1	1	3	3	...	...	...
	\$7,000-\$7,999.....	6	259	4	...	1	1	...	...	...
	\$8,000-\$9,999.....	3	63	2	1	...	...	...	...	...
	\$10,000-\$12,499.....	6	343	1	3	1	1	...	...	...
	\$12,500-\$17,499.....	7	736	3	...	2	1	1	...	...
	\$17,500-\$19,999.....	3	704	1	...	...	...	...	1	...
	\$20,000 and over.....	13	1,018	3	2	3	5	...	...	...
	Undistributed <sup>2</sup> .....	3	667	3	...	...	...	...	...	...
1476	ROCK SALT, TOTAL.....	22	1,984	10	2	4	3	3	...	...
	Less than \$3,000 and undistributed <sup>2</sup> .....	3	214	3	...	...	...	...	...	...
	\$4,000-\$6,999.....	6	48	5	1	...	...	...	...	...
	\$8,000-\$12,499.....	4	148	2	...	2	...	...	...	...
	\$12,500-\$17,499.....	6	1,003	...	...	2	3	1	...	...
	\$20,000 and over.....	3	571	...	1	...	...	2	...	...
1477	SULFUR, TOTAL.....	24	3,677	11	...	2	9	1	1	...
	Less than \$4,000.....	5	10	5	...	...	...	...	...	...
	\$10,000-\$17,499.....	4	439	1	...	...	3	...	...	...
	\$20,000 and over.....	10	2,240	1	...	1	6	1	1	...
	Undistributed <sup>2</sup> .....	5	988	4	...	1	...	...	...	...
1479	CHEMICAL-FERTILIZER MINING, NEC, TOTAL.....	31	677	24	3	2	2	...	...	...
	Less than \$3,000 and undistributed <sup>2</sup> .....	7	20	7	...	...	...	...	...	...
	\$3,000-\$3,999.....	4	62	3	1	...	...	...	...	...
	\$4,000-\$5,999.....	4	198	2	...	1	1	...	...	...
	\$6,000-\$8,999.....	4	218	2	1	...	1	...	...	...
	\$10,000-19,999.....	5	73	4	...	1	...	...	...	...
	\$20,000 and over.....	7	106	6	1	...	...	...	...	...

<sup>1</sup>See table 9, footnote 1.<sup>2</sup>Represents establishments with no employees or with negative value added in mining and, for number of employees, figures for separately reported central offices and related facilities.<sup>3</sup>Includes figures for separately reported central offices and related facilities.



Table 11.—Hourly Earnings of Production and Development Workers For Establishments With 10 or More Employees, by Divisions: 1958

Ind. Code	Industry by hourly earnings classes	Number of--		Number of establishments with 10 or more employees in--								
		Estab- lish- ments	Empley- ees	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Moun- tain	Pacific
1472	BARITE, TOTAL.....	18	817	...	...	...	8	3	4	2	...	1
	Less than \$1.49.....	8	1,246	...	...	...	2	3	3	...	...	...
	\$1.50-\$1.99.....	6	368	...	...	...	3	...	1	1	...	1
	\$2.00-\$2.99.....	4	203	...	...	...	3	...	...	1	...	...
1473	FLUORSPAR, TOTAL.....	20	1,126	...	...	9	...	1	3	1	6	...
	\$1.00-\$1.49.....	3	36	...	...	1	...	...	2	...	...	...
	\$1.50-\$1.99.....	8	373	...	...	5	...	1	1	...	1	...
	\$2.00-\$2.49.....	9	717	...	...	3	...	...	...	1	5	...
1474	POTASH, SODA, BORATE MINERALS, TOTAL.....	15	6,110	...	...	...	...	...	...	2	8	5
	\$1.50-\$1.99.....	2	191	...	...	...	...	...	...	2	...	...
	\$2.00-\$2.49.....	2	...	...	...	...	...	...	...	...	1	1
	\$2.50-\$2.99.....	8	4,552	...	...	...	...	...	...	...	4	4
	\$3.00-\$3.49.....	3	1,367	...	...	...	...	...	...	...	3	...
1475	PHOSPHATE ROCK, TOTAL.....	46	5,310	...	1	...	...	22	13	3	7	...
	\$1.00-\$1.49.....	7	166	...	...	...	...	3	3	1	...	...
	\$1.50-\$1.99.....	19	12,208	...	...	...	...	8	9	2	...	...
	\$2.00-\$2.49.....	15	12,222	...	1	...	...	10	...	...	4	...
	\$2.50-\$3.49.....	5	714	...	...	...	...	1	1	...	3	...
1476	ROCK SALT, TOTAL.....	12	1,968	...	2	1	2	...	...	5	1	1
	\$1.00-\$1.99.....	6	712	...	...	...	...	...	...	4	1	1
	\$2.00-\$3.99.....	6	1,256	...	2	1	2	...	...	1	...	...
1477	SULFUR, TOTAL.....	15	3,658	...	...	...	...	...	...	14	1	...
	\$1.50-\$2.49.....	3	301	...	...	...	...	...	...	2	1	...
	\$2.50-\$2.99.....	8	12,742	...	...	...	...	...	...	8	...	...
	\$3.00-\$3.49.....	4	615	...	...	...	...	...	...	4	...	...
1479	CHEMICAL-FERTILIZER MINING, NEC, TOTAL.....	13	622	...	2	...	...	3	...	4	3	1
	\$1.00-\$1.99.....	3	277	...	...	...	...	2	...	...	1	...
	\$2.00-\$2.49.....	6	262	...	1	...	...	1	...	2	1	1
	\$2.50-\$3.49.....	4	83	...	1	...	...	...	...	2	1	...

<sup>1</sup>Includes figures for separately reported central offices and related facilities.

Table 12.—Distribution of Operating Companies by Employment Size and by Number of Establishments for the United States: 1958

Ind. Code	Industry by establishment count	Number of—			Number of establishments with average employment of—								
		Operating companies	Establishments	Employees	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1472	BARITE, TOTAL.....	41	53	929	28	7	10	2	4	2	...	...	...
	Multiunit companies, total.....	8	20	762	4	6	3	1	4	2	...	...	...
	1 establishment <sup>1</sup> .....	5	5	243	1	...	...	1	3	...	...	...	...
	3 or 4 establishments.....	2	6	...	1	3	...	...	1	1	...	...	...
	7 to 9 establishments.....	1	9	519	2	3	3	...	...	1	...	...	...
	Single unit companies.....	33	33	167	24	1	7	1	...	...	...	...	...
1473	FLUORSPAR, TOTAL.....	50	55	1,235	23	12	9	3	5	2	1	...	...
	Multiunit companies, total.....	10	15	954	4	1	2	1	4	2	1	...	...
	1 establishment <sup>1</sup> .....	6	6	410	2	1	1	...	1	...	1	...	...
	2 establishments.....	3	6	...	2	...	...	1	2	1	...	...	...
	3 or 4 establishments.....	1	3	544	...	...	1	...	1	1	...	...	...
	Single unit companies.....	40	40	281	19	11	7	2	1	...	...	...	...
1474	POTASH, SODA, BORATE MINERALS, TOTAL.....	19	21	6,661	3	3	1	2	2	1	4	4	1
	Multiunit companies, total.....	11	r14	r6,352	...	1	1	r2	1	...	4	4	1
	1 establishment <sup>1</sup> .....	r9	10	...	...	1	...	...	1	...	4	2	1
	2 establishments.....	r1	r2	r6,352	...	...	...	r2	...	...	...	...	...
	3 or 4 establishments.....	1	3	...	...	...	1	...	...	...	...	2	...
	Single unit companies.....	r7	r7	r309	3	2	...	...	1	1	...	...	...
1475	PHOSPHATE ROCK, TOTAL.....	43	65	5,393	9	10	9	8	12	15	1	1	...
	Multiunit companies, total.....	17	39	5,020	2	2	2	6	10	15	1	1	...
	1 establishment <sup>1</sup> .....	6	6	586	1	...	...	2	1	2	...	...	...
	2 establishments.....	4	8	640	...	...	1	2	3	2	...	...	...
	3 or 4 establishments.....	5	15	...	1	1	...	...	6	6	1	...	...
	5 or 6 establishments.....	2	10	3,794	...	1	1	2	...	5	...	1	...
	Single unit companies.....	26	26	373	7	8	7	2	2	...	...	...	...
1476	ROCK SALT, TOTAL.....	18	22	1,984	9	1	...	2	4	3	3	...	...
	Multiunit companies, total.....	7	11	1,736	1	...	...	1	4	2	3	...	...
	1 establishment <sup>1</sup> .....	5	5	...	...	...	...	...	3	1	1	...	...
	3 or 4 establishments.....	2	6	1,736	1	...	...	1	1	1	2	...	...
	Single unit companies.....	11	11	248	8	1	...	1	...	1	...	...	...
1477	SULFUR, TOTAL.....	14	24	3,677	8	1	2	...	2	9	1	1	...
	Multiunit companies, total.....	5	15	3,640	1	1	...	...	2	9	1	1	...
	1 establishment <sup>1</sup> .....	2	2	199	1	...	...	...	...	1	...	...	...
	3 or 4 establishments.....	2	7	...	...	...	...	...	1	5	...	1	...
	5 or 6 establishments.....	1	6	3,441	...	1	...	...	1	3	1	...	...
	Single unit companies.....	9	9	37	7	...	2	...	...	...	...	...	...
1479	CHEMICAL-FERTILIZER MINING, NEC, TOTAL.....	28	31	677	14	4	6	3	2	2	...	...	...
	Multiunit companies, total.....	16	19	632	5	3	4	3	2	2	...	...	...
	1 establishment <sup>1</sup> .....	13	13	427	3	2	2	3	2	1	...	...	...
	2 establishments.....	3	6	205	2	1	2	...	...	1	...	...	...
	Single unit companies.....	12	12	45	9	1	2	...	...	...	...	...	...

<sup>1</sup>Represents companies having at least one establishment classified in other industries.

rRevised.



# Nonmetallic Minerals Services and Miscellaneous

## Nonmetallic Minerals

This report shows 1958 Census of Mineral Industries statistics for establishments classified in Industry Group 148, Nonmetallic Minerals (Except Fuels) Services, and Industry Group 149, Miscellaneous Nonmetallic Minerals, Except Fuels. The separate industries included in these two groups are as follows:

### S.I.C. Code and Title (1957 Edition)

- 1481--Nonmetallic Minerals Stripping Services
- 1482--Nonmetallic Minerals (Except Fuels) Services Except Stripping
- 1492--Gypsum
- 1493--Mica
- 1494--Native Asphalt and Bitumens
- 1495--Pumice and Pumicite
- 1496--Talc, Soapstone, and Pyrophyllite
- 1497--Natural Abrasives, Except Sand
- 1498--Peat
- 1499--Miscellaneous Nonmetallic Minerals, Not Elsewhere Classified

### NONMETALLIC MINERALS (EXCEPT FUELS) SERVICES

Industry 1481, Nonmetallic Minerals Stripping Services. This industry represents establishments primarily engaged in overburden stripping and strip mining for nonmetallic minerals (except fuels) for others on a contract, fee, or other basis.

Industry 1482, Nonmetallic Minerals (Except Fuels) Services Except Stripping. This industry represents establishments primarily engaged in performing services, except stripping, for nonmetallic minerals (except fuels) for others on a contract, fee, or other basis. The principal services performed in this industry are prospect, test, and other drilling; and exploration and cleanup work. Establishments primarily engaged in performing hauling

services are excluded from this industry and all other industries in the Mining Division.

Establishments classified in the nonmetallic minerals (except fuels) services industries were permitted to file one report for all mining services performed in the United States. These reports were classified on the basis of the principal type of service performed and the principal industry served to determine their industry or sub-industry classification. Each report included data on the amount received for services and the number of employees in March by State and county. For geographic area statistics, all other figures in each report were allocated on the basis of these reported data.

The total receipts in the nonmetallic minerals (except fuels) services industries in 1958 amounted to \$7.9 million, of which \$7.3 million were receipts for services primary to these industries, and \$0.6 million were for hauling and other services classified in other industries.

The services covered in this report represent only about 15 percent of all contract services performed for the industries in Major Group 14, Nonmetallic Minerals (Except Fuels) Mining. Operators of mining establishments in Major Group 14 reported receipts of \$7.5 million for contract services. It is probable that most of these receipts represented work for establishments classified in Major Group 14. In total, therefore, the Census reports for Major Group 14 account for contract receipts amounting to about \$15.4 million, or 30 percent of the total payments for contract work by establishments classified in Major Group 14. Much of the remaining contract work was probably hauling services and contract construction which are not within the scope of the 1958 economic censuses (manufactures, mineral industries, and business). The following table summarizes for groups of industries the available data on payments and receipts for contract services in Major Group 14 in 1958:

PAYMENTS AND RECEIPTS FOR SERVICES IN THE NONMETALLIC MINERALS MINING INDUSTRIES: 1958

Industry served	Cost of contract work as reported by mine operators (\$1,000)	Receipts for contract services reported in the nonmetallic minerals mining industries (\$1,000)		
		Total	By nonmetallic minerals (except fuels) services industries	By mine operators classified in nonmetallic minerals (except fuels) mining industries
Nonmetallic minerals mining, total..	51,707	15,402	7,934	7,468
Stone and sand and gravel.....	31,943	8,528	1,573	6,955
Clay and related minerals.....	3,864	4,890	1,701	409
Chemical and fertilizer minerals	13,334		2,780	
Miscellaneous nonmetallic minerals.....	2,566	1,984	1,880	104



### MISCELLANEOUS NONMETALLIC MINERALS (EXCEPT FUELS)

**Industry 1492, Gypsum.** This industry represents establishments primarily engaged in mining, quarrying, milling, or otherwise preparing gypsum. Calcining activities are excluded. However, if a gypsum mine is part of an establishment producing gypsum products, the entire establishment is classified in the manufacturing Industry 3275, Gypsum Products. In 1958, nearly three-fourths of all gypsum produced was mined at such establishments. Selected statistics for such mines are included in tables 1, 2, and 6A of this report.

**Industry 1493, Mica.** This industry represents establishments primarily engaged in mining, milling, or otherwise preparing mica. Establishments engaged in grinding mica which do not include a mine are classified in the manufacturing Industry 3295, Minerals: Ground or Treated. About 38 percent of all ground mica produced in 1958 was prepared at such establishments.

**Industry 1494, Native Asphalt and Bitumens.** This industry represents establishments primarily engaged in mining, milling, or otherwise preparing native asphalt and bitumens, including gilsonite, wurtzilite, grahamite, and ozokerite. (Of these minerals only gilsonite was produced in 1958.) The mining of bituminous limestone and bituminous sandstone is also included.

**Industry 1495, Pumice and Pumicite.** This industry represents establishments primarily engaged in mining, quarrying, milling, or otherwise preparing pumice and pumicite (volcanic ash).

**Industry 1496, Talc, Soapstone, and Pyrophyllite.** This industry represents establishments primarily engaged in mining, quarrying, milling, or otherwise preparing talc, soapstone, or pyrophyllite. Dimension soapstone is included in this industry. Establishments engaged in grinding talc, soapstone, or pyrophyllite which do not include a mine are classified in the manufacturing Industry 3295, Minerals: Ground or Treated. About 24 percent of all ground talc, soapstone, and pyrophyllite produced in 1958 was prepared at such establishments.

**Industry 1497, Natural Abrasives, Except Sand.** This industry represents establishments primarily engaged in mining, quarrying, milling, or otherwise preparing natural abrasives, such as corundum, industrial diamonds, emery, garnet, and tripoli. This industry includes the shaping of natural abrasive stones at the quarry. Establishments primarily engaged in the production of blast, grinding, or polishing sand are classified in Industry 1441, Sand and Gravel, and those primarily engaged in the production of diatomite in Industry 1499, Miscellaneous Nonmetallic Minerals, NEC.

**Industry 1498, Peat.** This industry represents establishments primarily engaged in mining peat, and in the preparation of peat.

**Industry 1499, Miscellaneous Nonmetallic Minerals, Not Elsewhere Classified.** This industry represents establishments primarily engaged in mining, quarrying, milling, or otherwise preparing miscellaneous nonmetallic minerals, not elsewhere classified, such as asbestos, diatomite,

natural gem stones, graphite, greensand, perlite, Iceland spar (optical grade calcite), and vermiculite. Separate subindustry figures have been tabulated for 1958 for "Asbestos," "Diatomite," "Perlite," and "Vermiculite, greensand, and other minerals."

The total value of shipments of the miscellaneous non-metallic minerals (except fuels) industries in 1958 was \$80.6 million, of which primary products of these industries amounted to \$79.9 million and secondary products, products purchased and resold without further processing, and receipts for services amounted to only \$0.7 million. Of the total value of shipments for this group, the gypsum industry accounted for about \$7 million; the mica industry, \$6 million; the native asphalt and bitumens industry, \$8 million; the pumice and pumicite industry, \$5 million; the talc, soapstone, and pyrophyllite industry, \$15 million; the natural abrasives industry, \$3 million; the peat industry, \$4 million; and the miscellaneous nonmetallic minerals, nec, industry, \$32 million. These figures represent gross value of shipments and some of them contain duplication due to the inclusion of shipments of crude minerals to other establishments in the same industry for preparation. However, the cost of crude minerals received for preparation in all of these industries was only \$0.3 million.

The Bureau of the Census statistics on primary products of the miscellaneous nonmetallic minerals (except fuels) industries are, in general, comparable with product statistics for the same commodities published by the Bureau of Mines. The differences which occur result primarily from differences in data collection methods, coverage, and objectives sought. The most nearly comparable statistics from the two bureaus are shown in the table below. Major reasons for the differences in the product statistics are:

(1) The Bureau of the Census collects information on production and shipments and calculates net shipments whereas the Bureau of Mines generally obtains figures on products sold or used. Differences between shipments and sold and used, for example, account for significant differences between Census and Mines figures shown for gypsum and scrap mica.

(2) The Bureau of the Census excludes small establishments whose value of products and reported costs were below \$500. The Bureau of Mines includes all reports obtained regardless of size. However, the contribution to product of such small operations is usually very small.

(3) Differences exist in coverage in certain areas for both collecting agencies.

(4) Census figures are sometimes reported at a different level of preparation than Bureau of Mines figures. In general, Census uses a uniform approach to crude and prepared material, requesting for crude the total material actually loaded at the mine site, and under prepared material, the product of all preparation methods such as milling, washing, grinding, and sizing. This explains, in part, the differences between prepared figures for the two agencies for talc, soapstone, and pyrophyllite.

(5) Census includes the value of containers if the mineral product is sold with containers from the mine or preparation plant. This may explain some of the differences in total value for peat.



## NONMETALLIC MINERALS (EXC. FUELS) SERVICES AND MISCELLANEOUS INDUSTRIES

14F-3

QUANTITY AND VALUE OF MINERAL PRODUCTS AS REPORTED TO THE BUREAU OF THE CENSUS AND TO THE BUREAU OF MINES FOR THE UNITED STATES: 1958

(Includes Alaska and Hawaii)

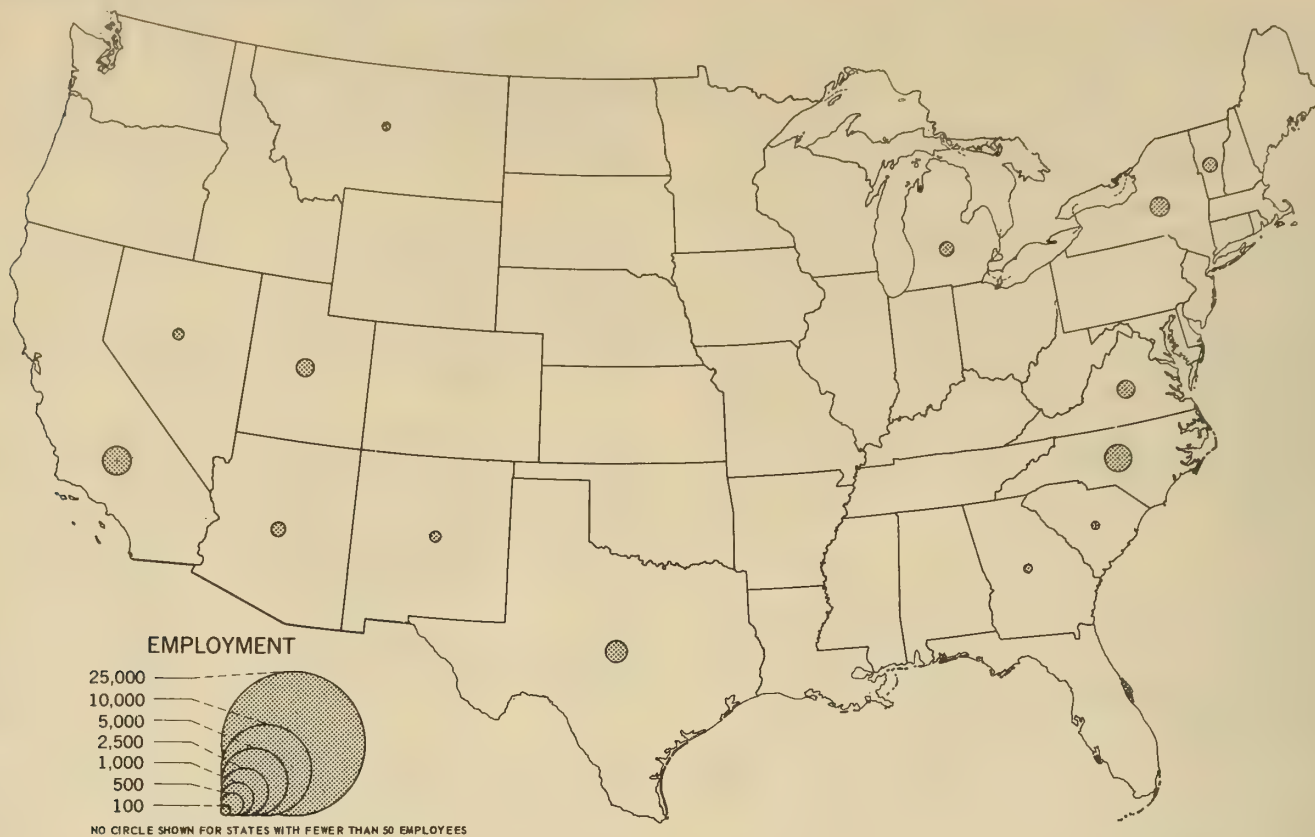
Product	Unit of measure	Bureau of the Census statistics			Bureau of Mines statistics	
		Production (Quantity)	Shipments including interplant transfers		Production	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
Gypsum:						
Crude.....	1,000 short tons	19,384	737	1,414	9,600	32,495
Prepared (crushed, ground, screened, or dried).....	..... do .....	(NA)	3,829	15,939	(NA)	(NA)
Mica:						
Hand-cobbed mica.....	1,000 pounds	3,407	3,395	849	<sup>2</sup> 3,478	(NA)
Sheet mica.....	do	407	406	2,702	<sup>2</sup> 3,661	<sup>2</sup> 32,844
Scrap (or flake) mica.....	short tons	106,326	48,478	989	<sup>2</sup> 93,347	<sup>2</sup> 2,065
Ground mica.....	do	(NA)	114,892	5,950	<sup>2</sup> 97,529	<sup>2</sup> 5,560
Native asphalt and bitumens:						
Gilsonite.....	1,000 short tons	317	321	4,700	317	4,864
Bituminous limestone and sandstone	do	1,298	1,298	3,327	1,326	3,343
Pumice and pumicite.....	do	2,093	2,073	5,486	<sup>2</sup> 1,973	<sup>2</sup> 5,287
Talc, soapstone, and pyrophyllite:						
Crude.....	do	726	<sup>4</sup> 237	<sup>4</sup> 1,574	<sup>5</sup> 718	<sup>5</sup> 4,718
Prepared.....	do	(NA)	600	17,593	<sup>2</sup> 5,633	<sup>2</sup> 5,13,856
Natural abrasives, except sand.....	do	66	65	3,510	<sup>2</sup> 69	<sup>2</sup> 1,474
Peat.....	do	366	365	4,253	328	3,446
Asbestos, crude and prepared.....	do	44	<sup>4</sup> 44	<sup>4</sup> 4,900	44	5,127
Diatomite, prepared.....	do	458	452	20,114	<sup>2</sup> 438	<sup>2</sup> 20,216
Perlite:						
Crude.....	do	364	18	92	<sup>2</sup> 372	(NA)
Prepared <sup>6</sup> .....	do	278	265	2,512	<sup>2</sup> 292	<sup>2</sup> 2,464
Other nonmetallic minerals:						
Crude.....	do	206	2	35	(NA)	} 4,387
Prepared.....	do	204	209	3,696	(NA)	

NA Not available.

<sup>1</sup>In addition to gypsum mined for shipment in crude or prepared form, includes 5,581 tons of gypsum valued at approximately \$21,174 thousand, produced and used in the same establishment in the manufacture of calcined gypsum products.<sup>2</sup>Represents minerals sold or used by producers. For tripoli (included in natural abrasives) represents value of crude material.<sup>3</sup>Represents sheet mica plus full-trimmed equivalent of hand-cobbed mica.<sup>4</sup>Represents net shipments, that is gross shipments less minerals received for preparation.<sup>5</sup>Excludes dimension soapstone.<sup>6</sup>Includes simple preparation methods, such as drying and crushing; does not include expansion.

# NONMETALLIC MINERALS SERVICES AND NONMETALLIC MINERALS, NEC

Distribution of Employment by State:1958



Employment Including Mining in Manufactures:1840-1958

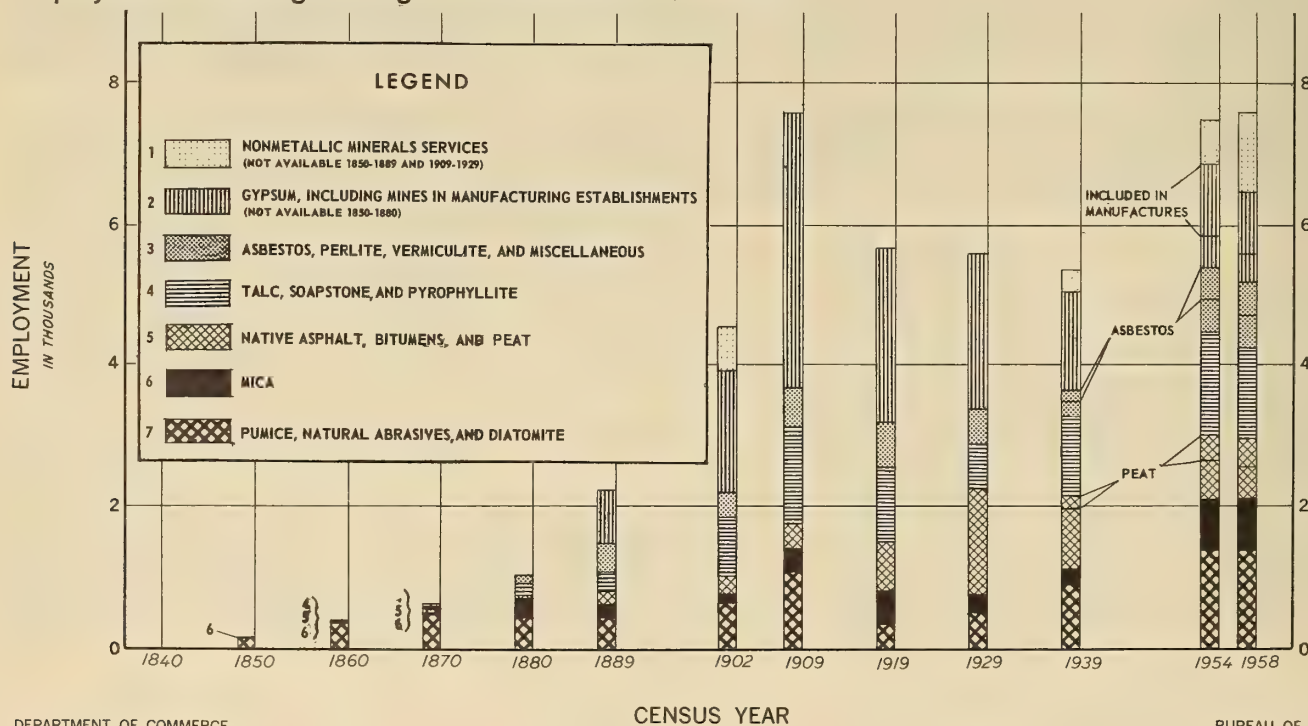




Table 1.—General Statistics for the United States: 1958 and Earlier Years

(For explanations of column captions see Introduction. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. 1)

Ind. code	Industry or subindustry and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, minerals received for preparation, fuels, purchased electricity, and contract work	Cost of purchased machinery installed	Value of shipments and receipts	Value of net shipments and receipts	Quantity of primary products <sup>1</sup> (1,000 short tons)	Capital expenditures
			Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
148-	NONMETALLIC MINERALS SERVICES:															
	1958.....	74	75	6	1,109	3,522	1,037	1,893	3,038	6,217	1,865	700	7,934	7,934	xxx	848
	1954.....	62	62	4	639	2,327	614	1,258	2,214	4,884	1,666	402	6,571	6,301	xxx	381
	1939.....	65	65	(NA)	335	368	307	632	320	2,241	241	(NA)	966	966	xxx	53
	1902 <sup>2</sup> .....	(NA)	(NA)	(NA)	587	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	228	228	xxx	(NA)
	Subindustry															
	Stone, sand, and gravel services:															
	1958.....	15	15	1	97	491	81	175	347	1,034	485	208	1,573	1,573	xxx	154
	1954.....	18	18	(NA)	286	1,059	282	579	1,049	2,228	650	(D)	2,878	(NA)	xxx	(D)
	1939.....	30	30	(NA)	144	152	133	283	143	278	80	(NA)	358	358	xxx	4
	Clay and related minerals services:															
	1958.....	25	25	1	151	492	136	251	437	1,165	530	156	1,701	1,701	xxx	150
	1954.....	24	24	(NA)	137	470	129	268	425	1,181	453	142	1,649	(NA)	xxx	127
	1939.....	12	12	(NA)	67	78	59	128	51	192	84	(NA)	276	276	xxx	31
	Chemical and fertilizer minerals services:															
	1958.....	15	16	2	405	1,291	383	652	1,100	2,267	508	104	2,780	2,780	xxx	99
	1954.....	4	4	(NA)	55	188	55	100	188	376	169	(D)	545	(NA)	xxx	(D)
	1939.....	11	11	(NA)	45	43	40	60	38	85	36	(NA)	121	121	xxx	15
	Miscellaneous minerals, nec services:															
	1958.....	19	19	2	456	1,248	437	815	1,154	1,751	342	232	1,880	1,880	xxx	445
	1954.....	16	16	(NA)	161	610	148	311	552	1,099	394	124	1,499	(NA)	xxx	118
	1939.....	12	12	(NA)	79	95	75	161	88	170	41	(NA)	211	211	xxx	3
1481	NONMETALLIC MINERALS STRIPPING:															
	1958.....	46	47	3	626	1,907	588	1,069	1,636	3,780	1,114	484	4,787	4,787	xxx	591
	1954.....	42	42	(NA)	294	1,031	(NA)	569	(NA)	2,251	859	268	3,124	(NA)	xxx	254
1482	NONMETALLIC SERVICES, NEC:															
	1958.....	28	28	3	483	1,615	449	824	1,402	2,437	751	216	3,147	3,147	xxx	257
	1954.....	20	20	(NA)	345	1,296	(NA)	689	(NA)	2,633	807	134	3,447	(NA)	xxx	127
149-	MISCELLANEOUS MINERALS, NEC AND SIMILAR MINES IN MANUFACTURES:															
	1958, total.....	6,439	507	71	6,481	27,182	5,512	11,179	21,160	86,150	25,046	(NA)	107,707	107,418	xxx	(NA)
	Miscellaneous minerals, nec.....	432	475	55	5,616	23,399	4,647	9,449	17,377	62,355	21,717	5,851	80,583	80,294	xxx	9,340
	Miscellaneous minerals in manufactures.....	8	32	16	3,865	3,783	3,865	1,730	3,783	23,795	3,329	(NA)	4,27,124	4,27,124	xxx	(NA)
	1954, total.....	783	897	(NA)	6,816	24,393	5,959	12,128	19,944	70,121	20,311	(NA)	88,299	87,741	xxx	(NA)
	Mines and plants classified in minerals industries.....	779	870	52	5,787	20,388	4,930	10,070	15,939	47,831	17,371	5,808	63,069	62,511	xxx	7,941
	Mines included in establishments classified in manufacturing industries.....	5	27	(NA)	3,1029	3,4005	3,1029	2,058	4,005	22,290	2,940	(NA)	4,25,230	4,25,230	xxx	(NA)
	1939 <sup>5</sup> .....	6,211	7,256	(NA)	5,112	5,670	4,509	8,861	4,375	12,934	8,340	(NA)	(NA)	16,274	xxx	(NA)
	1929 <sup>5</sup> .....	(NA)	171	(NA)	5,135	6,791	4,634	(NA)	5,421	12,772	8,3104	379	(NA)	15,876	xxx	(NA)
	1919 <sup>5</sup> .....	(NA)	214	(NA)	5,410	5,812	4,803	(NA)	4,652	8,346	3,960	(NA)	12,306	12,306	xxx	(NA)
	1909 <sup>5</sup> .....	6,378	4,22	(NA)	7,590	4,256	6,855	(NA)	3,359	7,241	2,430	(NA)	9,671	9,671	xxx	(NA)
	1902 <sup>5</sup> .....	6,685	7,315	(NA)	3,930	2,156	10,3402	(NA)	1,632	4,692	8,671	(NA)	(NA)	5,363	xxx	(NA)
	1889 <sup>5</sup> .....	(NA)	(NA)	(NA)	2,276	812	(NA)	(NA)	(NA)	1,782	267	(NA)	(NA)	2,049	xxx	(NA)

See footnotes at end of table.

Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

Ind. code	Industry or subindustry and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, minerals received for preparation, fuels, purchased electricity, and contract work (\$1,000)	Cost of purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Value of net shipments and receipts (\$1,000)	Quantity of primary products <sup>1</sup> (1,000 short tons)	Capital expenditures (\$1,000)
			Total	With 20 or more employees	Number	Pay-roll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1492	GYPSUM AND GYPSUM MINES IN MANUFACTURES:															
	1958, total.....	36	64	20	1,271	5,588	1,219	2,506	5,264	29,753	4,661	(NA)	34,172	34,172	9,384	(NA)
	Gypsum industry....	29	32	4	406	1,805	354	776	1,481	5,958	1,332	578	7,048	7,048	2,569	820
	Gypsum mines in manufactures.....	8	32	16	<sup>3</sup> 865	<sup>3</sup> 3,783	<sup>3</sup> 865	1,730	3,783	23,795	3,329	(NA)	<sup>4</sup> 27,124	<sup>4</sup> 27,124	6,815	(NA)
1492	1954, total.....	38	64	(NA)	1,478	5,857	1,428	2,984	5,572	27,642	4,247	(NA)	31,861	(NA)	9,057	(NA)
	Gypsum industry....	34	37	5	449	1,852	399	926	1,567	5,352	1,307	2,395	6,631	(NA)	2,487	2,423
	Gypsum mines in manufactures.....	5	27	(NA)	<sup>3</sup> 1,029	<sup>3</sup> 4,005	<sup>3</sup> 1,029	2,058	4,005	22,290	2,940	(NA)	<sup>4</sup> 25,230	<sup>4</sup> 25,230	6,570	(NA)
	1939.....	34	<sup>7</sup> 59	(NA)	1,424	1,857	1,327	2,466	1,640	3,756	<sup>8</sup> 813	(NA)	(NA)	4,569	3,302	(NA)
	1929 <sup>9</sup> .....	(NA)	60	(NA)	2,212	2,935	2,078	(NA)	2,628	4,516	<sup>8</sup> 1,224	<sup>7</sup> 578	(NA)	5,740	5,152	(NA)
	1919.....	(NA)	47	(NA)	2,473	3,033	2,191	(NA)	2,478	4,612	2,194	(NA)	6,806	6,806	2,420	(NA)
	1909.....	82	82	(NA)	3,901	2,377	3,469	(NA)	1,825	4,235	1,578	(NA)	5,813	5,813	2,253	(NA)
	1902.....	45	<sup>7</sup> 62	(NA)	1,721	1,059	<sup>10</sup> 1,472	(NA)	759	1,747	<sup>8</sup> 342	(NA)	(NA)	2,089	816	(NA)
	1889.....	(NA)	<sup>7</sup> 24	(NA)	761	249	<sup>11</sup> 715	(NA)	(NA)	625	<sup>8</sup> 139	(NA)	(NA)	764	268	(NA)
1493	MICA:															
	1958.....	142	149	8	727	2,007	649	1,204	1,709	4,974	1,841	577	6,221	6,216	<sup>12</sup> 94,292	1,171
	1954.....	446	498	6	710	1,342	668	1,196	1,255	3,284	1,228	474	4,126	4,092	<sup>12</sup> 59,068	860
	1939.....	22	<sup>7</sup> 21	(NA)	210	138	190	361	118	276	<sup>8</sup> 51	(NA)	(NA)	327	<sup>12</sup> 20,731	(NA)
	1929 <sup>9</sup> .....	(NA)	24	(NA)	249	253	226	(NA)	195	415	<sup>8</sup> 101	6	(NA)	516	<sup>12</sup> 12,130	(NA)
	1919 <sup>9</sup> .....	(NA)	65	(NA)	488	335	448	(NA)	288	469	138	(NA)	607	607	(NA)	(NA)
	1909.....	77	<sup>7</sup> 77	(NA)	305	143	284	(NA)	125	177	30	(NA)	207	207	(NA)	(NA)
	1902.....	38	<sup>7</sup> 49	(NA)	119	57	<sup>10</sup> 98	(NA)	44	107	<sup>8</sup> 12	(NA)	(NA)	119	<sup>12</sup> 1,587	(NA)
	1889.....	(NA)	<sup>7</sup> 4	(NA)	185	42	<sup>11</sup> 170	(NA)	36	45	<sup>8</sup> 7	(NA)	52	52	<sup>12</sup> 221	(NA)
	1880.....	(NA)	<sup>7</sup> 22	(NA)	272	66	(NA)	(NA)	(NA)	122	6	(NA)	128	128	<sup>12</sup> 41	(NA)
	1870 <sup>13</sup> .....	(NA)	3	(NA)	27	6	(NA)	(NA)	(NA)	8	1	(NA)	9	9	(NA)	(NA)
1494	NATIVE ASPHALT AND BITUMENS:															
	1958.....	8	10	5	464	2,265	367	732	1,398	5,954	2,293	517	8,041	8,041	1,615	723
	1954.....	9	12	7	551	2,147	451	987	1,443	4,857	1,643	476	6,424	6,424	1,417	552
	1939.....	23	<sup>7</sup> 23	(NA)	853	892	730	1,330	608	2,554	<sup>8</sup> 414	(NA)	(NA)	2,968	495	(NA)
	1929.....	(NA)	21	(NA)	1,306	1,841	1,123	(NA)	1,255	4,345	<sup>8</sup> 779	182	(NA)	5,124	819	(NA)
	1919.....	(NA)	9	(NA)	387	431	324	(NA)	295	343	407	(NA)	750	750	(NA)	(NA)
	1909 <sup>9</sup> .....	12	14	(NA)	234	173	208	(NA)	129	370	96	(NA)	466	466	(NA)	(NA)
	1902.....	24	<sup>7</sup> 24	(NA)	208	128	<sup>10</sup> 156	(NA)	80	205	<sup>8</sup> 32	(NA)	(NA)	237	66	(NA)
	1889 <sup>14</sup> .....	(NA)	(NA)	(NA)	136	67	<sup>11</sup> 126	(NA)	60	152	22	(NA)	(NA)	174	52	(NA)
1495	PUMICE AND PUMICITE:															
	1958.....	63	64	2	316	1,103	271	409	907	4,058	1,257	267	5,002	5,002	1,837	580
	1954.....	73	75	1	267	962	223	440	748	2,741	769	298	3,393	(NA)	1,818	415
	1939 <sup>15</sup> .....	15	17	(NA)	127	126	122	197	119	301	86	(NA)	(NA)	387	87	(NA)
	1909 <sup>15</sup> .....	3	3	(NA)	17	5	15	(NA)	5	29	1	(NA)	30	30	(NA)	(NA)
1496	TALC, SOAPSTONE, PYROPHYLLITE:															
	1958.....	43	64	12	1,294	5,320	1,123	2,289	4,157	11,755	3,542	509	14,908	(D)	726	898
	1954.....	54	68	13	1,471	4,940	1,297	2,778	4,141	9,486	3,044	486	11,819	11,563	610	1,197
	1939.....	29	<sup>7</sup> 38	(NA)	1,137	1,189	970	2,068	807	2,441	<sup>8</sup> 828	(NA)	(NA)	3,269	254	(NA)
	1929.....	(NA)	25	(NA)	632	832	550	(NA)	615	2,012	<sup>8</sup> 676	35	(NA)	2,688	243	(NA)
	1919.....	(NA)	28	(NA)	1,061	1,050	958	(NA)	835	1,749	553	(NA)	2,302	2,302	(NA)	(NA)
	1909.....	39	39	(NA)	1,356	607	1,256	(NA)	504	909	266	(NA)	1,175	1,175	(NA)	(NA)
	1902.....	20	<sup>7</sup> 20	(NA)	846	343	<sup>10</sup> 771	(NA)	279	1,012	<sup>8</sup> 126	(NA)	(NA)	1,138	98	(NA)
	1889.....	(NA)	(NA)	(NA)	280	116	<sup>11</sup> 260	(NA)	101	437	39	(NA)	(NA)	476	36	(NA)
	1880.....	(NA)	<sup>7</sup> 14	(NA)	178	58	(NA)	(NA)	(NA)	103	18	(NA)	(NA)	121	13	(NA)
	1870.....	(NA)	9	(NA)	74	38	(NA)	(NA)	(NA)	91	98	(NA)	(NA)	189	(NA)	(NA)
	1860.....	(NA)	6	(NA)	27	11	(NA)	(NA)	(NA)	18	10	(NA)	(NA)	28	(NA)	(NA)
1497	NATURAL ABRASIVES, EXCEPT SAND:															
	1958.....	20	20	4	229	1,007	204	408	801	2,648	786	88	3,373	3,373	<sup>1</sup> 66	149
	1954 <sup>16</sup> .....	22	22	3	218	885	197	403	698	2,874	869	79	3,490	3,490	74	332
	1939.....	27	<sup>7</sup> 36	(NA)	443	479	383	798	346	1,115	<sup>8</sup> 220	(NA)	(NA)	1,335	44	(NA)
	1929 <sup>15</sup> .....	(NA)	30	(NA)	525	659	462	(NA)	491	1,165	<sup>8</sup> 246	67	(NA)	1,411	90	(NA)
	1919 <sup>15</sup> .....	(NA)	34	(NA)	354	378	317	(NA)	322	488	234	(NA)	722	722	(NA)	(NA)
	1909 <sup>17</sup> .....	77	<sup>7</sup> 119	(NA)	1,028	441	972	(NA)	384	831	240	(NA)	1,071	1,071	(NA)	(NA)
	1902 <sup>17</sup> .....	65	<sup>7</sup> 71	(NA)	642	327	<sup>10</sup> 575	(NA)	283	1,044	<sup>8</sup> 78	(NA)	(NA)	1,122	(NA)	(NA)
	1889 <sup>18</sup> .....	(NA)	(NA)	(NA)	450	141	442	(NA)	136	247	49	(NA)	296	296	(NA)	(NA)
	1880 <sup>19</sup> .....	(NA)	<sup>7</sup> 45	(NA)	490	184	490	(NA)	184	340	264	(NA)	604	604	(NA)	(NA)
	1870 <sup>20</sup> .....	(NA)	35	(NA)	152	55	(NA)	(NA)	(NA)	139	97	(NA)	236	236	(NA)	(NA)
	1860 <sup>21</sup> .....	49	(NA)	(NA)	370	126	(NA)	(NA)	(NA)	278	147	(NA)	425	425	(NA)	(NA)
	1850 <sup>22</sup> .....	35	(NA)	(NA)	152	55	(NA)	(NA)	(NA)	139	97	(NA)	236	236	(NA)	(NA)

See footnotes at end of table.



Table 1.—General Statistics for the United States: 1958 and Earlier Years—Continued

Ind. code	Industry or subindustry and year	Operating companies, number	Establishments, number		All employees		Production and development workers			Value added in mining (\$1,000)	Cost of supplies, minerals received for preparation, fuels, purchased electricity, and contract work (\$1,000)	Cost of purchased machinery installed (\$1,000)	Value of shipments and receipts (\$1,000)	Value of net shipments and receipts (\$1,000)	Quantity of primary products <sup>1</sup> (1,000 short tons)	Capital expenditures (\$1,000)
			Total	With 20 or more employees	Number	Pay-roll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
1498	PEAT:															
	1958.....	80	81	3	389	1,282	335	613	974	3,640	1,104	446	4,379	4,370	1366	811
	1954.....	86	88	3	353	940	321	637	829	1,800	572	159	2,326	2,326	249	205
	1939 <sup>9</sup> .....	23	725	(NA)	184	144	157	246	101	338	<sup>8</sup> 40	(NA)	(NA)	378	56	(NA)
	1909 <sup>9</sup> .....	10	10	(NA)	126	60	112	(NA)	40	85	24	(NA)	109	109	(NA)	(NA)
	1870.....	(NA)	4	(NA)	39	6	(NA)	(NA)	(NA)	7	1	(NA)	(NA)	8	(NA)	(NA)
1499	NONMETALLIC MINERALS, NEC:															
	1958.....	47	55	17	1,791	8,610	1,344	3,018	5,950	23,368	9,562	2,869	31,611	(D)	xxx	4,188
	1954.....	63	70	14	1,768	7,320	1,374	2,703	5,258	17,437	7,939	1,441	24,860	24,595	xxx	1,957
	1939.....	638	737	(NA)	734	845	630	1,395	636	2,153	<sup>8</sup> 888	(NA)	(NA)	3,041	xxx	(NA)
	Asbestos sub-industry:															
	1958.....	14	14	4	478	1,608	423	801	1,287	3,774	1,450	182	5,061	(D)	<sup>12</sup> 44,205	345
	1954.....	17	17	(NA)	435	1,402	394	754	1,164	3,899	1,093	248	4,877	4,877	<sup>12</sup> 49,310	363
	1939.....	9	79	(NA)	169	169	160	344	151	341	<sup>8</sup> 151	(NA)	(NA)	492	<sup>12</sup> 15,423	(NA)
	1929 <sup>9</sup> .....	(NA)	11	(NA)	211	271	195	(NA)	237	319	<sup>8</sup> 78	89	(NA)	397	<sup>12</sup> 3,440	(NA)
	1919.....	(NA)	10	(NA)	160	121	146	(NA)	92	198	52	(NA)	250	250	(NA)	(NA)
	1909.....	10	10	(NA)	80	66	65	(NA)	46	40	25	(NA)	65	65	(NA)	(NA)
	1902.....	4	74	(NA)	30	11	<sup>10</sup> 23	(NA)	8	38	<sup>8</sup> 8	(NA)	(NA)	46	<sup>12</sup> 2,505	(NA)
	1889.....	(NA)	(NA)	(NA)	12	2	<sup>11</sup> 9	(NA)	(NA)	1	1	(NA)	(NA)	2	<sup>12</sup> 30	(NA)
	1880.....	(NA)	7	(NA)	17	1	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)	4	<sup>12</sup> 150	(NA)
	Diatomite sub-industry:															
	1958.....	9	13	7	857	4,803	619	1,497	3,303	14,723	6,598	2,019	20,212	20,212	458	3,128
	1954.....	11	14	(NA)	864	3,880	635	1,206	2,718	9,233	5,590	1,036	14,784	(NA)	437	1,075
	1939 <sup>15</sup> .....	14	714	(NA)	361	476	299	751	338	1,393	<sup>8</sup> 625	(NA)	(NA)	2,018	98	(NA)
	1909 <sup>9</sup> .....	14	14	(NA)	67	33	59	(NA)	28	61	15	(NA)	76	76	(NA)	(NA)
	1902 <sup>15</sup> .....	10	711	(NA)	43	18	<sup>10</sup> 35	(NA)	14	54	2	(NA)	(NA)	56	6	(NA)
	1889 <sup>23</sup> .....	(NA)	(NA)	(NA)	52	9	<sup>11</sup> 49	(NA)	8	21	2	(NA)	(NA)	23	3	(NA)
	Perlite sub-industry:															
	1958.....	12	14	3	176	922	120	320	563	1,772	795	542	2,604	2,604	283	505
	1954.....	18	19	(NA)	123	486	101	241	369	1,621	665	69	2,259	2,259	277	96
	Vermiculite, green-sand, and other minerals sub-industry:															
	1958.....	12	14	3	280	1,277	182	400	797	3,099	719	126	3,734	3,734	xxx	210
	1954.....	20	20	(NA)	346	1,552	244	502	1,007	2,684	591	88	2,940	(NA)	xxx	423
	1939.....	15	714	(NA)	204	200	171	300	147	419	<sup>8</sup> 112	(NA)	(NA)	531	xxx	(NA)
	1919.....	(NA)	21	(NA)	487	464	419	(NA)	342	487	382	(NA)	869	869	xxx	(NA)
	1909.....	54	54	(NA)	476	351	415	(NA)	273	504	155	(NA)	659	659	xxx	(NA)
	1902.....	<sup>24</sup> 479	774	(NA)	321	213	<sup>10</sup> 272	(NA)	165	485	<sup>8</sup> 71	(NA)	(NA)	556	xxx	(NA)
	1889.....	(NA)	(NA)	(NA)	400	186	(NA)	(NA)	(NA)	254	8	(NA)	(NA)	262	xxx	(NA)
	1880.....	(NA)	4	(NA)	95	30	(NA)	(NA)	(NA)	47	3	(NA)	(NA)	50	xxx	(NA)

D Withheld to avoid disclosing data for individual companies. NA Not available. <sup>1</sup>Represents the product indicated by the name of the industry. For gypsum and talc, soapstone, and pyrophyllite operations, represents production of crude material. Also, represents production for native asphalt and bitumens; pumice and pumicite; natural abrasives, except sand; peat; asbestos; and diatomite. For mica and perlite represents shipments for 1958 and 1954, for earlier years represents production. For 1958, figures for natural abrasives, except sand and peat include data for production as a secondary product in other industries; amounting to less than one percent of the total for peat, and to less than 5 percent of the total for natural abrasives, except sand. <sup>2</sup>Excludes the cost of subcontract work and products purchased for resale. For 1954, the cost of subcontract work was \$213 thousand and the cost of products purchased for resale \$133 thousand. <sup>3</sup>Number of production and development workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are shown for production and development workers and for all employees. <sup>4</sup>Includes the estimated value of gypsum produced and used in the same establishment in the manufacture of calcined gypsum products. <sup>5</sup>For 1939, figures other than number of companies and number of mines include data for 2 lithium mines which are classified in the Chemical-fertilizer mining, nec industry. For 1929, 1919, 1902, and 1889 excludes data for the Peat industry. See also footnote 9. <sup>6</sup>Represents the sum of figures shown for separate industries or subindustries and probably includes some duplication due to the same company operating in more than one industry or sub-industry. <sup>7</sup>Represents number of mines. <sup>8</sup>Excludes the cost of minerals received for preparation. <sup>9</sup>Excludes nonproducing establishments for which separate figures are not available as follows: 1939, Peat, 1 mine and 1 preparation plant; 1929, Gypsum 1, Mica 1, and Asbestos 1; 1919, Mica 1; and 1909, Native asphalt and bitumens 2; Peat 2; and Diatomite 1. <sup>10</sup>Figures for average employment were reduced to a 300-day basis for establishments which operated for a shorter period. <sup>11</sup>Represents the average number employed during the time the mines were active. <sup>12</sup>Represents short tons. <sup>13</sup>Only one establishment was reported in the Mica industry for 1860 and 2 establishments for 1850. <sup>14</sup>Only 2 establishments were reported in the Native asphalt and bitumens industry in 1880, and one establishment in 1870 and 1860. <sup>15</sup>For 1929 and 1919, figures for the Pumice and pumicite industry are included with those for the Natural abrasives, except sand industry. For 1929, figures for the Diatomite subindustry are included with those for the Natural abrasives, except sand industry. For 1902, figures for the Pumice and pumicite industry and for tripoli (classified in the Natural abrasives, except sand industry) were included with those for the Diatomite subindustry. <sup>16</sup>Revised to exclude data for establishments primarily engaged in producing "Quartz." Statistics for such establishments were included with those for the Stone and Sand and Gravel industries in other years. <sup>17</sup>For 1909, represents establishments primarily producing grindstones; buhrstones and millstones; oilstones, scythestones, and whetstones; corundum and emery; garnet; quartz; and tripoli. For 1902, represents establishments primarily producing grindstones and pulstones; buhrstones and millstones; oilstones, whetstones, and scythestones; corundum and emery; garnet; and crystalline quartz. Excludes establishments primarily producing tripoli (these are included with the figures for the Diatomite subindustry); in 1909, the value of production of tripoli establishments represented 6 percent of the total value of production for the Natural abrasives, except sand industry. <sup>18</sup>Represents establishments primarily producing corundum, grindstones, millstones, and whetstones; for 1902, the value of shipments for such products amounted to 91 percent of the total shown for the Natural abrasives industry in that year. <sup>19</sup>Represents establishments primarily producing corundum, garnet, grindstones, millstones, oilstones, scythestones, shoemakers' stones, and whetstones. <sup>20</sup>Represents establishments primarily producing burr millstones, grindstones, and millstones only. <sup>21</sup>Represents establishments primarily producing grindstones, millstones, oilstones, scythestones, whetstones, corundum, and emery. <sup>22</sup>Represents establishments primarily producing grindstones, buhrstones, and millstones only. Such establishments accounted for about 80 percent of the total value of products shown for this industry for 1860. <sup>23</sup>Only 2 establishments were reported in the Diatomite subindustry for 1880. <sup>24</sup>Includes a count of persons who found precious stones "by accident, in prospecting for, operating, or developing mines of other minerals; or in the working of gravels containing gold, monazite, etc." <sup>25</sup>Represents number of employees engaged in contract work and payments for contract work as reported by companies operating nonmetallic minerals mines and quarries.

Table 2.—General Statistics by Regions, States, and Type of Operation: 1958 and 1954

(For explanation of column captions see Introduction. For more detailed historical statistics for these industries by State see table 2 of the corresponding chapter of 1954 Census of Mineral Industries, Vol. 1)

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of primary products <sup>2</sup> (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
148	NONMETALLIC MINERALS SERVICES, TOTAL.....	375	36	1,109	3,522	1,037	1,893	3,038	6,217	2,565	7,934	xxx	848	639	4,884
1481	NONMETALLIC MINERALS STRIPPING.....	347	33	626	1,907	588	1,069	1,636	3,780	1,598	4,787	xxx	591	294	2,251
1482	NONMETALLIC SERVICES, NEC.....	328	33	483	1,615	449	824	1,402	2,437	967	3,147	xxx	257	345	2,633
	<u>Region and State</u> <sup>3</sup>														
	Northeast.....	9	...	38	174	29	65	119	377	258	520	xxx	115	33	353
	East North Central.....	43	...	71	323	65	144	267	632	486	1,016	xxx	102	73	554
	West North Central.....	14	...	49	227	43	84	166	615	265	829	xxx	51	16	146
	South Atlantic.....	16	1	362	794	358	654	773	1,052	259	1,149	xxx	162	97	550
	North Carolina.....	8	1	329	704	325	598	686	832	168	877	xxx	123	(NA)	(NA)
	East South Central.....	9	1	73	222	67	123	201	455	293	669	xxx	79	224	1,767
	West South Central.....	11	2	265	661	259	419	636	1,000	158	1,121	xxx	37	67	354
	West, total.....	26	2	251	1,121	216	404	866	2,086	846	2,630	xxx	302	129	1,160
	Nonmetallic minerals stripping.....	17	1	134	616	115	185	459	1,610	487	1,876	xxx	221	(NA)	(NA)
	Nonmetallic services, nec.	9	1	117	505	101	218	417	476	359	754	xxx	81	(NA)	(NA)
	Utah.....	4	1	95	437	84	170	371	494	169	607	xxx	56	(NA)	(NA)
	<u>Services by Principal Industry Served</u>														
	Stone, and Sand and gravel....	15	1	97	491	81	175	347	1,034	693	1,573	xxx	154	286	2,228
	Clay and related minerals....	25	1	151	492	136	251	437	1,165	686	1,701	xxx	150	137	1,181
	Chemical and fertilizer minerals, total.....	16	2	405	1,291	383	652	1,100	2,267	612	2,780	xxx	99	55	376
	Phosphate rock.....	7	1	94	389	81	107	245	1,054	337	1,375	xxx	36	...	...
	Barite, fluorspar, potash, borate minerals, and sulfur.....	9	1	311	902	302	623	855	1,213	255	1,405	xxx	63	55	376
	Miscellaneous minerals, nec, total.....	19	2	456	1,248	437	815	1,154	1,751	574	1,880	xxx	445	161	1,099
	Mica.....	9	1	331	722	325	596	693	891	242	944	xxx	189	161	1,099
	Native asphalt, talc, pumice, and perlite.....	10	1	125	526	112	219	461	860	332	936	xxx	256		
1492	GYPSUM AND GYPSUM MINES IN MANUFACTURES, TOTAL...	64	20	1,271	5,588	1,219	2,506	5,264	29,753	5,239	34,172	9,384	(NA)	1,478	27,642
	Mines and plants classified in the Gypsum industry.....	32	4	406	1,805	354	776	1,481	5,958	1,910	7,048	2,569	820	449	5,352
	Mines included in establishments classified in manufacturing.....	32	16	4865	43,783	4865	1,730	3,783	23,795	53,329	627,124	6,815	(NA)	1,029	22,290
	<u>Region and State</u>														
	Middle Atlantic (New York)....	5	4	242	1,254	239	475	1,231	2,857	903	63,472	818	(NA)	(NA)	(NA)
	North Central.....	14	9	421	1,889	405	856	1,787	12,536	1,760	614,226	3,747	(NA)	(NA)	(NA)
	Michigan.....	4	2	175	819	159	363	717	4,031	686	64,647	1,340	(NA)	(NA)	(NA)
	Iowa.....	4	3	101	425	101	202	425	4,492	420	64,912	1,234	(NA)	(NA)	(NA)
	South.....	15	4	363	1,286	351	714	1,233	7,223	1,132	68,243	2,179	(NA)	(NA)	(NA)
	Oklahoma.....	6	1	66	228	58	117	204	1,566	271	61,797	493	140	(NA)	(NA)
	Texas.....	6	1	86	334	86	172	334	4,324	400	64,724	1,187	(NA)	(NA)	(NA)
	West, total.....	30	3	245	1,159	224	461	1,013	7,137	1,444	68,231	2,640	(NA)	245	(NA)
	Mines and plants classified in the Gypsum industry.....	22	1	135	662	114	240	516	2,272	585	2,507	1,202	350	146	2,188
	Mines included in establishments classified in manufacturing.....	8	2	4110	4497	4110	221	497	4,865	5859	65,724	1,438	(NA)	99	(NA)
	Mountain (Gypsum industry only).....	10	...	67	332	60	121	289	871	323	1,044	354	150	92	1,372
	Pacific (Gypsum industry only)	12	1	68	330	54	119	227	1,401	262	1,463	848	200	54	816
	<u>Type of Operation</u>														
	Mines and plants classified in the Gypsum industry:														
	Producing open-pit mines with preparation plants..	17	2	248	1,184	212	469	949	4,312	1,274	5,172	1,771	414	276	3,192
	Other operations <sup>7</sup> .....	15	2	158	621	142	307	532	1,646	636	1,876	798	406	173	2,160

See footnotes at end of table.



Table 2.—General Statistics by Regions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region, State, and type of operation <sup>1</sup>	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of primary products <sup>2</sup> (1,000 short tons)	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Type of Operation—Continued</u>														
	Mines included in establishments classified in manufacturing:														
	Open-pit mines.....	21	10	4,429	41,816	4,429	858	1,816	17,273	52,154	619,427	4,881	(NA)	(NA)	(NA)
	Underground mines.....	11	6	4,436	41,967	4,436	872	1,967	6,522	51,175	67,697	1,934	(NA)	(NA)	(NA)
1493	MICA, TOTAL.....	149	8	727	2,007	649	1,204	1,709	4,974	2,418	6,221	94	1,171	710	3,284
	<u>Region and State</u>														
	Northeast.....	24	1	149	396	139	250	347	990	563	1,347	3	206	(NA)	(NA)
	New Hampshire.....	11	1	94	239	88	156	201	677	341	915	1	103	49	175
	South.....	101	7	524	1,398	464	864	1,204	3,465	1,660	4,350	80	775	605	2,731
	North Carolina.....	82	5	391	988	356	628	907	2,714	897	3,157	48	454	556	2,548
	<u>Type of Operation</u>														
	Producing establishments, total.....	139	8	715	1,978	637	1,180	1,680	4,986	2,270	6,221	94	1,035	698	3,196
	Mines only:														
	Open-pit.....	61	...	135	352	132	233	343	1,431	607	1,658	8	380	11	85
	Underground <sup>3</sup> .....	22	3	191	412	179	316	379	1,220	497	1,583	1	134	13	96
	Mines with preparation plants:														
	Open-pit.....	45	4	296	1,025	249	521	804	1,877	1,106	2,509	83	474	327	1,538
	Underground <sup>3</sup> .....	11	1	93	189	77	110	154	458	60	471	2	47	347	1,477
	Nonproducing establishments..	10	...	12	29	12	24	29	(10)	148	...	...	136	12	88
1494	NATIVE ASPHALT AND BITUMENS..	10	5	464	2,265	367	732	1,398	5,954	2,810	8,041	1,615	723	551	4,857
1495	PUMICE AND PUMICITE:														
	United States and Hawaii.....	70	2	354	1,218	303	471	1,002	4,387	1,720	5,482	2,093	625	(NA)	(NA)
	United States.....	64	2	316	1,103	271	409	907	4,058	1,524	5,002	1,837	580	267	2,741
	<u>Region and State</u>														
	Mountain.....	27	...	114	450	101	192	398	1,995	817	2,580	1,170	232	98	1,414
	New Mexico.....	10	...	60	254	52	109	220	813	368	1,032	492	149	64	850
	Pacific.....	28	1	158	490	134	173	375	1,760	472	1,950	574	282	141	1,209
	California.....	23	1	135	391	115	133	292	1,493	365	1,622	437	236	118	957
	Hawaii.....	6	...	38	115	32	62	95	329	196	480	256	45	(NA)	(NA)
	<u>Type of Operation</u>														
	Producing establishments, total.....	64	2	316	1,103	271	409	907	4,058	1,524	5,002	1,837	580	267	2,741
	Open-pit mines only.....	36	...	99	294	91	140	273	1,683	547	2,089	958	141	1127	11382
	Open-pit mines with preparation plants.....	28	2	217	809	180	269	634	2,375	977	2,913	879	439	240	2,359
1496	TALC, SOAPSTONE, PYRO-PHYLLITE, TOTAL.....	64	12	1,294	5,320	1,123	2,289	4,157	11,755	4,051	14,908	726	898	1,471	9,486
	<u>Region and State</u>														
	Northeast.....	6	4	436	2,506	349	723	1,874	5,738	1,700	7,158	286	280	428	3,959
	South.....	18	7	729	2,184	670	1,362	1,815	4,607	1,725	5,838	258	494	873	4,056
	North Carolina.....	8	4	212	726	192	391	579	1,778	556	2,178	127	156	227	1,425
	Georgia.....	3	1	100	226	85	166	169	310	186	462	47	34	(NA)	(NA)
	West.....	40	1	129	630	104	204	468	1,410	626	1,912	182	124	170	1,471
	California.....	27	1	99	512	79	150	366	1,153	539	1,588	116	104	132	1,133
	<u>Type of Operation</u>														
	Producing establishments, total.....	59	12	1,293	5,314	1,123	2,288	4,154	11,772	4,033	14,908	726	897	1,465	9,465
	Mines only:														
	Open-pits.....	18	...	32	100	26	56	90	455	216	590	109	81	8	114
	Underground mines.....	18	...	65	286	55	95	205	799	268	1,021	100	46	80	757

See footnotes at end of table.

Table 2.—General Statistics by Regions, States, and Type of Operation: 1958 and 1954—Continued

Ind. code	Industry, region, State, and type of operation	1958											1954		
		Establishments, number		All employees		Production and development workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of shipments and receipts	Quantity of primary products	Capital expenditures	All employees, number	Value added in mining
		Total	With 20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
	<u>Type of Operation—Continued</u>														
	Producing establishments—Continued														
	Mines with preparation plants:														
	Open-pits.....	11	3	474	1,423	442	894	1,219	3,064	1,296	3,981	154	379	889	4,748
	Combination open-pit and underground mines.....	4	3	215	733	189	394	562	<sup>r</sup> 1,132	525	1,557	101	100	(NA)	(NA)
	Underground mines.....	8	6	507	2,772	411	849	2,078	6,322	1,728	7,759	262	291	488	3,846
	Nonproducing establishments..	5	...	1	6	...	1	3	( <sup>10</sup> )	18	...	...	1	6	21
1497	NATURAL ABRASIVES, EXCEPT SAND.....	20	4	229	1,007	204	408	801	2,648	874	3,373	<sup>12</sup> 66	149	218	2,874
	<u>Region</u>														
	Northeast and North Central..	11	4	213	927	191	384	748	2,340	718	3,009	59	105	185	1,719
1498	PEAT, TOTAL.....	81	3	389	1,282	335	613	974	3,640	1,550	4,379	<sup>12</sup> 366	811	353	1,800
	<u>Region and State</u>														
	Northeast.....	21	1	90	299	77	115	209	587	190	591	<sup>12</sup> 62	186	101	411
	Middle Atlantic.....	14	1	78	272	67	104	186	514	180	546	58	148	63	306
	North Central.....	28	2	209	744	178	360	557	2,234	1,028	2,944	165	318	153	888
	Michigan.....	7	2	140	523	121	268	390	1,721	879	2,367	124	233	(NA)	(NA)
	<u>Type of Operation</u>														
	Open-pit mines only <sup>13</sup> .....	21	...	31	73	29	40	66	262	78	252	53	88	26	114
	Open-pit mines with preparation plants.....	60	3	358	1,209	306	573	908	3,378	1,472	4,127	<sup>12</sup> 313	723	327	1,686
1499	NONMETALLIC MINERALS, NEC, TOTAL.....	55	17	1,791	8,610	1,344	3,018	5,950	23,368	12,431	31,611	xxx	4,188	1,768	17,437
	Asbestos subindustry...	14	4	478	1,608	423	801	1,287	3,774	1,632	5,061	44	345	435	3,899
	Diatomite subindustry..	13	7	857	4,803	619	1,497	3,303	14,723	8,617	20,212	458	3,128	864	9,233
	Perlite subindustry....	14	3	176	922	120	320	563	1,772	1,337	2,604	283	505	123	1,621
	Vermiculite, green-sand, and other minerals subindustry..	14	3	280	1,277	182	400	797	3,099	845	3,734	xxx	210	346	2,684
	<u>Region and State</u>														
	Mountain.....	29	5	599	2,656	483	1,063	1,938	<sup>r</sup> 5,317	<sup>r</sup> 5,210	7,646	xxx	2,881	465	4,899
	New Mexico.....	<sup>r</sup> 5	2	101	506	86	246	406	1,350	997	1,853	xxx	494	(NA)	(NA)
	Arizona.....	10	3	222	587	201	379	471	1,092	570	1,454	xxx	208	(NA)	(NA)
	Nevada.....	7	3	135	787	92	226	535	1,513	3,112	2,520	xxx	2,105	(NA)	(NA)
	Pacific.....	14	5	769	4,243	557	<sup>r</sup> 1,367	2,899	13,593	5,757	18,306	xxx	1,044	800	8,461
1494	NATIVE ASPHALT AND BITUMENS,														
1497	NATURAL ABRASIVES, EXCEPT SAND, AND														
1499	NONMETALLIC MINERALS, NEC:														
	<u>Type of Operation</u>														
	Producing establishments, total.....	82	26	2,469	11,830	1,903	4,131	8,109	31,968	16,103	43,025	xxx	5,046	2,536	25,163
	Mines only.....	18	...	42	139	39	72	129	318	177	425	xxx	70	88	637
	Mines with preparation plants:														
	Open-pits.....	52	20	1,961	9,629	1,483	3,354	6,670	26,906	13,690	36,217	xxx	4,379	2,448	24,526
	Underground mines and combination open-pits and underground mines...	12	6	466	2,062	381	705	1,310	4,744	2,236	6,383	xxx	597		
	Nonproducing establishments.....	3	...	15	52	12	27	40	2	12	...	...	14	1	5

See footnotes on next page.



Footnotes for Table 2-14F

NA Not available.

<sup>1</sup>General statistics for most States are not shown separately in this table in order to avoid disclosing figures for individual companies or because of the relatively small size of the statistics. Such States are shown below for 1958 with the number of establishments in each State (and in parenthesis the number of employees or employment size range):

SIC 1481, Nonmetallic Minerals Stripping: Maine, 1 (0-4); Pennsylvania, 3 (10-19); Ohio, 1 (5-9); Illinois, 1 (0-4); Michigan, 1 (0-4); Minnesota, 1 (10-19); Missouri, 8 (20-49); South Dakota, 1 (0-4); North Carolina, 8 (329); South Carolina, 1 (0-4); Georgia, 2 (5-9); Florida, 2 (10-19); Tennessee, 1 (10-19); Mississippi, 1 (20-49); Arkansas, 1 (0-4); Texas, 3 (10-19); Idaho, 2 (50-99); Wyoming, 3 (10-19); Arizona, 1 (5-9); Utah, 2 (10-19); Nevada, 7 (20-49); California, 2 (10-19).

SIC 1482, Nonmetallic Services, NEC: Pennsylvania, 5 (10-19); Ohio, 13 (10-19); Indiana, 17 (10-19); Illinois, 6 (20-49); Michigan, 1 (0-4); Wisconsin, 3 (0-4); Minnesota, 4 (0-4); Florida, 3 (10-19); Kentucky, 5 (20-49); Tennessee, 1 (0-4); Alabama, 1 (10-19); Arkansas, 1 (0-4); Texas, 6 (100-249); Colorado, 1 (10-19); New Mexico, 2 (10-19); Arizona, 1 (0-4); Utah, 2 (50-99); Washington, 1 (0-4); California, 2 (0-4).

SIC 1492, Gypsum: New York, 1 (20-49); Michigan, 1 (100-249); Arkansas, 1 (10-19); Louisiana, 1 (50-99); Oklahoma, 5 (20-49); Texas, 1 (0-4); Montana, 1 (5-9); Idaho, 1 (0-4); Colorado, 3 (10-19); Arizona, 4 (20-49); Nevada, 1 (10-19); Washington, 1 (0-4); California, 11 (50-99).

SIC 1493, Mica: Maine, 9 (20-49); Connecticut, 1 (0-4); Pennsylvania, 3 (5-9); South Dakota, 8 (10-19); Kansas, 1 (0-4); Virginia, 1 (0-4); South Carolina, 4 (10-19); Georgia, 9 (20-49); Tennessee, 3 (20-49); Alabama, 2 (50-99); Montana, 2 (0-4); Idaho, 1 (0-4); Wyoming, 1 (10-19); Colorado, 2 (0-4); New Mexico, 5 (5-9); Arizona, 1 (0-4); California, 3 (10-19).

SIC 1494, Native Asphalt and Bitumens: New York, central office only (10-19); Missouri, 1 (10-19); Alabama, 1 (10-19); Oklahoma, 1 (20-49); Texas, 2 (100-249); Utah, 5 (225).

SIC 1495, Pumice and Pumicite: North Dakota, 2 (0-4); Nebraska, 1 (0-4); Kansas, 2 (0-4); Oklahoma, 1 (0-4); Texas, 3 (20-49); Idaho, 4 (5-9); Wyoming, 1 (0-4); Colorado, 3 (5-9); Arizona, 5 (20-49); Utah, 2 (5-9); Nevada, 2 (5-9); Washington, 1 (0-4); Oregon, 4 (20-49).

SIC 1496, Talc, Soapstone, and Pyrophyllite: Vermont, 4 (50-99); New York, 2 (250-499); Maryland, 2 (20-49); Virginia, 1 (250-499); Alabama, 1 (5-9); Texas, 3 (20-49); Montana, 4 (10-19); Nevada, 4 (5-9); Washington, 5 (5-9).

SIC 1497, Natural Abrasives, Except Sand: New York, 2 (100-249); Pennsylvania, 2 (0-4); Ohio, 2 (10-19); Indiana, 1 (0-4); Illinois, 2 (20-49); Minnesota, 1 (20-49); Missouri, 1 (20-49); Arkansas, 6 (0-4); Montana, 1 (0-4); Idaho, 1 (5-9); Oregon, 1 (0-4).

SIC 1498, Peat: Maine, 2 (10-19); New Hampshire, 1 (0-4); Massachusetts, 1 (0-4); Connecticut, 3 (0-4); New York, 5 (10-19); New Jersey, 3 (20-49); Pennsylvania, 6 (20-49); Ohio, 8 (20-49); Indiana, 5 (20-49); Illinois, 3 (5-9); Wisconsin, 1 (0-4); Minnesota, 1 (0-4); Iowa, 2 (5-9); Nebraska, 1 (0-4); Virginia, 1 (0-4); South Carolina, 1 (5-9); Georgia, 1 (5-9); Florida, 8 (20-49); Texas, 1 (0-4); Idaho, 1 (0-4); Colorado, 2 (5-9); Utah, 1 (0-4); Washington, 10 (10-19); California, 5 (20-49).

SIC 1499, Nonmetallic Minerals, NEC: Maine, 1 (0-4); Vermont, 1 (100-249); Rhode Island, 1 (5-9); New York, central office only (0-4); New Jersey, 2 (10-19); South Dakota, 1 (0-4); Maryland, 1 (0-4); North Carolina, 2 (0-4); South Carolina, 2 (100-249); Texas, 1 (20-49); Montana, 1 (100-249); Idaho, 1 (0-4); Wyoming, 1 (0-4); Colorado, 2 (0-4); Utah, 2 (20-49); Washington, 1 (20-49); Oregon, 2 (50-99); California, 11 (695).

<sup>2</sup>See table 1, footnote 1.

<sup>3</sup>Service establishments were permitted to prepare one report for all mining services performed in the United States. The totals shown for number of establishments in this table, and all figures shown for number of establishments in other tables of this report, represent the counts of these reports. For 1958, however, these reports contained data for total receipts for services and total employment on March 15 by State and county. All other region and State information in this table for 1958 was obtained by allocating the totals reported by each company on the basis of the reported county data. The number of establishments shown by region and State represents the number of operations in separated counties.

<sup>4</sup>Number of production and development workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations; hence, the same figures are shown for production and development workers and for all employees.

<sup>5</sup>Excludes the cost of purchased machinery.

<sup>6</sup>Includes the estimated value of gypsum produced and used in the same establishment in the manufacture of calcined gypsum products.

<sup>7</sup>Represents 11 producing open-pit mines without preparation plants, 2 producing underground mines with preparation plants, and 2 nonproducing establishments.

<sup>8</sup>For 1958, includes data for 2 combination open-pit and underground mines; for 1954, includes data for one combination open-pit and underground mine and for 9 mines not reported by type.

<sup>9</sup>For 1958, includes data for 3 combination open-pit and underground mines; for 1954, includes data for 10 combination open-pit and underground mines, 75 mines not reported by type, and 5 preparation plants not operated in conjunction with mines.

<sup>10</sup>Not shown since cost of supplies, fuels, purchased electricity, contract work, and purchased machinery exceeds value of shipments and receipts plus capital expenditures.

<sup>11</sup>Includes data for 2 nonproducing establishments.

<sup>12</sup>Includes data for production as a secondary product in other industries, amounting to less than one percent of the United States total for Peat, and to less than 5 percent for Natural Abrasives, Except Sand.

<sup>13</sup>For 1958, includes data for 1 nonproducing establishment; and for 1954, data for 4 nonproducing establishments.

<sup>r</sup>Revised.

Table 3.—Detailed Statistics for Industries, Selected

Item	148— Nonmetallic minerals services industries	1481— Nonmetallic minerals stripping industry	1482— Nonmetallic services, nec industry	149— Miscellan- eous min- erals, nec industries	1492—Gypsum industry		1493— Mica industry
					United States, all operations	Producing open-pit mines with preparation plants	
1 Number of establishments, total.....	75	47	28	475	32	17	149
2 With 0-19 employees.....	69	44	25	420	28	15	141
3 With 20-99 employees.....	4	2	2	45	3	1	8
4 With 100 employees and over.....	2	1	1	10	1	1	...
5 Including mines.....	xxx	xxx	xxx	475	32	17	149
6 Including preparation plants.....	xxx	xxx	xxx	250	19	17	56
7 Quantity of primary products <sup>1</sup> .....1,000 short tons..	xxx	xxx	xxx	xxx	2,569	1,771	94
8 Value of shipments and receipts, total.....\$1,000..	7,934	4,787	3,147	80,583	7,048	5,172	6,221
9 Minerals transferred to other establishments for preparation and resales.....do....	...	...	...	289	...	...	5
10 Net shipments and receipts, total.....do....	7,934	4,787	3,147	80,294	7,048	5,172	6,216
11 Primary products.....do....	7,282	4,278	3,004	79,579	7,036	5,172	6,103
12 Other products and services.....do....	652	509	143	715	12	...	113
13 Value added in mining.....\$1,000..	6,217	3,780	2,437	62,355	5,958	4,312	4,974
14 Number of persons engaged, total.....	1,188	676	512	5,993	426	256	916
15 Production and development workers (average for the year) <sup>2</sup> .....	1,037	588	449	4,647	354	212	649
16 March.....	929	463	466	4,534	320	186	625
17 May.....	968	524	444	4,746	363	224	670
18 August.....	1,171	728	443	4,762	374	222	665
19 November.....	1,074	629	445	4,590	364	211	644
20 Other employees.....	72	38	34	969	52	36	78
21 Proprietors and firm members.....	79	50	29	377	20	8	189
22 Performing manual labor.....	44	29	15	217	10	4	115
23 Man-hours worked by production and development workers, total.....1,000..	1,893	1,069	824	9,449	776	469	1,204
24 At mines, total.....do....	xxx	xxx	xxx	4,074	574	290	621
25 Underground <sup>3</sup> .....do....	128	3	125	1,285	91	...	237
26 Open-pits <sup>4</sup> .....do....	103	103	...	2,354	426	272	335
27 Surface (including mine shops and yards) <sup>5</sup> .....do....	1,021	944	77	435	57	18	49
28 At preparation plants <sup>6</sup> .....do....	641	19	622	5,375	202	179	583
29 Man-hours spent on development and exploration work (included above).....do....	(NA)	(NA)	(NA)	223	15	14	47
30 Principal expenses designated below, total.....\$1,000..	5,387	3,021	2,366	45,116	3,137	2,212	3,848
31 Wages of production and development workers.....do....	3,038	1,636	1,402	17,377	1,481	949	1,709
32 Salaries of all other employees.....do....	484	271	213	6,022	324	235	298
33 Supplies and purchases for resale.....do....	1,289	686	603	13,965	975	814	995
34 Minerals received for preparation.....do....	...	...	...	270	...	...	...
35 Purchased fuel.....do....	379	259	120	2,736	166	72	336
36 Purchased electricity.....do....	51	32	19	2,180	118	84	206
37 Contract work.....do....	146	137	9	2,566	73	58	304
38 Purchased machinery installed.....do....	700	484	216	5,851	578	246	577
39 Capital expenditures, total.....do....	848	591	257	9,340	820	414	1,171
40 Development and exploration of mineral properties.....do....	...	...	...	1,036	28	28	315
41 Preparation plant and other construction.....do....	74	22	52	1,822	69	59	218
42 New machinery and equipment.....do....	705	506	199	5,603	682	313	434
43 Used plant and equipment.....do....	69	63	6	879	41	14	204
44 Energy used..... million kwh equivalent..	105	73	32	1,371	74	34	115
45 Fuel oil.....1,000 barrels..	21	18	3	(NA)	(NA)	(NA)	(NA)
46 Other fuels and undistributed <sup>7</sup> .....\$1,000..	266	164	102	2,736	166	72	336
47 Electric energy purchased.....million kwh..	2	1	1	193	8	5	14
48 Electric energy generated and used.....do....	...	...	...	6	...	...	...

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>See table 1, footnote 1.<sup>2</sup>Number of production and development workers for all months was collected for the Nonmetallic Minerals Services Industries and for the Mica and Talc, Soapstone, Pyrophyllite Industries only. For these industries the United States totals by months are:

Industry	January	February	March	April	May	June	July	August	September	October	November	December
Nonmetallic minerals stripping.....	466	460	463	502	524	680	703	728	695	628	629	633
Nonmetallic services, nec.....	449	457	466	451	444	449	452	443	445	447	445	443
Mica.....	687	601	625	680	670	666	642	665	656	638	644	591
Talc, soapstone and pyrophyllite...	1,120	1,130	1,125	1,137	1,137	1,164	1,151	1,152	1,156	1,105	1,079	1,100



## Areas, and Selected Types of Operation: 1958

1494—Native asphalt and bitumens industry	1495—Fumice and pumicite industry	1496—Talc, soapstone, pyrophyllite industry				1497—Natural abrasives, except sand industry	1498—Peat industry	1499—Nonmetallic minerals, nec industry								
		United States, all operations	North-east	South	Under-ground mines with preparation plants			United States, all operations	Mountain	Pacific	Producing open-pit mines with preparation plants	Asbestos sub-industry	Diatomite sub-industry	Perlite and other minerals sub-industries		
10	64	64	6	18	8	20	81	55	29	14	31	14	13	28	1	
5	62	52	2	11	2	16	78	38	20	9	18	10	6	22	2	
4	2	9	2	6	4	3	3	13	8	4	9	3	6	4	3	
1	...	3	2	1	2	1	...	4	1	1	4	1	1	2	4	
10	64	64	6	18	8	20	81	55	29	14	31	14	13	28	5	
9	28	23	6	13	8	16	60	39	17	12	31	7	13	19	6	
1,615	1,837	726	286	258	262	166	1366	xxx	xxx	xxx	xxx	44	458	xxx	7	
8,041	5,002	14,908	7,158	5,838	7,759	3,373	4,379	31,611	7,646	18,306	29,590	5,061	20,212	6,338	8	
...	...	(D)	...	...	(D)	...	9	(D)	(D)	...	...	(D)	...	...	9	
8,041	5,002	(D)	7,158	5,838	(D)	3,373	4,370	(D)	(D)	18,306	29,590	(D)	20,212	6,338	10	
8,027	5,002	(D)	7,158	5,776	(D)	3,373	4,370	(D)	(D)	18,306	29,549	(D)	20,212	6,338	11	
14	...	301	...	62	(D)	...	...	113	37	...	41	16	...	...	12	
5,954	4,058	11,755	5,738	4,607	6,322	2,648	3,640	23,368	5,317	13,593	21,952	3,774	14,723	4,871	13	
468	350	1,328	436	737	507	245	448	1,812	611	773	1,525	486	858	468	14	
367	271	1,123	349	670	411	204	335	1,344	483	557	1,102	423	619	302	15	
377	229	1,125	344	679	419	194	333	1,331	473	558	1,096	421	618	292	16	
358	260	1,137	358	668	416	211	390	1,357	489	562	1,102	433	624	300	17	
371	309	1,152	360	685	417	195	327	1,369	495	566	1,110	427	621	321	18	
357	291	1,079	331	648	388	209	312	1,334	475	542	1,106	413	614	307	19	
97	45	171	87	59	96	25	54	447	116	212	416	55	238	154	20	
4	34	34	...	8	...	16	59	21	12	4	7	8	1	12	21	
...	12	17	...	6	...	8	47	8	6	1	2	4	1	3	22	
732	409	2,289	723	1,362	849	408	613	3,018	1,063	1,367	2,556	801	1,497	720	23	
421	233	889	314	424	368	106	322	908	584	172	556	455	183	270	24	
138	...	530	280	160	333	...	...	289	269	20	...	267	20	2	25	
132	232	278	4	229	...	101	311	539	272	131	502	153	151	235	26	
151	1	81	30	35	35	5	11	80	43	21	54	35	12	33	27	
311	176	1,400	409	938	481	302	291	2,110	479	1,195	2,000	346	1,314	450	28	
10	15	51	9	31	8	...	41	44	26	(D)	33	(D)	(D)	17	29	
4,558	2,360	8,862	4,074	3,597	4,356	1,793	2,386	18,172	5,380	9,793	16,610	3,058	11,401	3,713	30	
1,398	907	4,157	1,874	1,815	2,078	801	974	5,950	1,938	2,899	5,311	1,287	3,303	1,360	31	
867	196	1,163	632	369	694	206	308	2,660	718	1,344	2,498	321	1,500	839	32	
1,538	760	2,428	1,068	1,029	1,071	513	762	6,264	1,626	3,871	5,672	922	4,423	919	33	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34	
79	270	291	119	88	118	181	174	1,239	369	1,274	1,157	327	838	...	35	
270	68	547	368	159	382	22	34	915	156	...	895	...	614	375	36	
406	159	276	13	137	13	70	134	1,144	573	405	1,077	201	723	220	37	
517	267	509	132	312	144	88	446	2,869	2,486	207	2,749	182	2,019	668	38	
723	580	898	280	494	291	149	811	4,188	2,881	1,044	3,912	345	3,128	715	39	
175	54	128	47	74	47	1	137	198	139	8	115	103	54	41	40	
19	212	169	108	22	108	42	111	982	359	596	942	28	840	114	41	
510	205	482	112	304	110	106	455	2,729	2,358	190	2,579	212	1,980	537	42	
19	109	119	13	94	26	...	108	279	25	250	276	2	254	23	43	
50	111	153	79	43	79	73	79	716	198	416	673	100	486	130	44	
(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	45	
79	270	291	119	88	118	181	174	1,239	369	704	1,157	166	838	235	46	
18	3	51	37	12	38	1	2	96	13	(D)	94	(D)	67	(D)	47	
...	...	...	...	...	...	(D)	...	(D)	(D)	...	(D)	...	...	(D)	48	

<sup>3</sup>For Nonmetallic minerals services industries, represents man-hours, on exploration work, including geophysical and other exploratory surveying.

<sup>4</sup>For Nonmetallic minerals services industries represents man-hours on stripping overburden.

<sup>5</sup>For Nonmetallic minerals services industries, represents man-hours on mining minerals for the account of others.

<sup>6</sup>For Nonmetallic minerals services industries, represents man-hours on other services such as drilling.

<sup>7</sup>Undistributed fuels costs for all nonmetallic minerals services was \$72 thousand and no coal or gas was reported used by these industries. The quantity and cost of individual fuels was not obtained for any of the miscellaneous minerals, nec industries.

<sup>8</sup>Revised.

Table 4A.—Selected Statistics for Establishments Classified by Employment Size for the United States: 1958

(For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	All establishments, total	Establishments with an average of—						
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees
1481	NONMETALLIC MINERALS STRIPPING:								
	Number of establishments.....	47	21	16	7	2	...	...	1
	All employees:								
	Number.....	626	40	111	87	388	...	...	(D)
	Payroll.....\$1,000..	1,907	152	382	447	926	...	...	(D)
	Production and development workers:								
	Number.....	588	36	102	82	368	...	...	(D)
	Man-hours.....1,000..	1,069	68	193	166	642	...	...	(D)
	Wages.....\$1,000..	1,636	136	346	357	797	...	...	(D)
	Value added in mining.....do...	3,780	447	882	1,081	1,370	...	...	(D)
	Value of shipments and receipts.....do...	4,787	561	1,259	1,333	1,634	...	...	(D)
	Capital expenditures.....do...	591	179	166	176	70	...	...	(D)
1482	NONMETALLIC SERVICES, NEC:								
	Number of establishments.....	28	14	5	6	1	1	1	...
	All employees:								
	Number.....	483	23	37	94	329	(D)	(D)	...
	Payroll.....\$1,000..	1,615	80	148	368	1,019	(D)	(D)	...
	Production and development workers:								
	Number.....	449	20	34	84	311	(D)	(D)	...
	Man-hours.....1,000..	824	37	67	178	542	(D)	(D)	...
	Wages.....\$1,000..	1,402	56	129	308	909	(D)	(D)	...
	Value added in mining.....do...	2,437	216	408	528	1,285	(D)	(D)	...
	Value of shipments and receipts.....do...	3,147	285	532	882	1,448	(D)	(D)	...
	Capital expenditures.....do...	257	35	79	64	79	(D)	(D)	...
1492	GYPSUM:								
	Number of establishments.....	32	13	8	7	2	1	1	...
	All employees:								
	Number.....	406	22	49	83	252	(D)	(D)	...
	Payroll.....\$1,000..	1,805	75	192	414	1,124	(D)	(D)	...
	Production and development workers:								
	Number.....	354	17	42	71	224	(D)	(D)	...
	Man-hours.....1,000..	776	46	73	153	504	(D)	(D)	...
	Wages.....\$1,000..	1,481	69	158	342	912	(D)	(D)	...
	Value added in mining.....do...	5,958	271	682	1,279	3,726	(D)	(D)	...
	Value of shipments and receipts.....do...	7,048	316	807	1,682	4,243	(D)	(D)	...
	Capital expenditures.....do...	820	51	37	230	502	(D)	(D)	...
	Number of producing establishments by type of operation, total.....	30	11	8	7	3	...	1	...
	Open-pit mines only.....	11	6	3	1	1	...	...	...
	Mines with preparation plants:								
	Open-pits.....	17	5	4	6	1	...	1	...
	Underground mines.....	2	...	1	...	1	...	...	...
1493	MICA:								
	Number of establishments.....	149	106	17	18	7	1	...	...
	All employees:								
	Number.....	727	115	111	255	246	(D)	...	...
	Payroll.....\$1,000..	2,007	271	229	802	705	(D)	...	...
	Production and development workers:								
	Number.....	649	113	104	214	218	(D)	...	...
	Man-hours.....1,000..	1,204	197	167	420	420	(D)	...	...
	Wages.....\$1,000..	1,709	266	218	589	635	(D)	...	...
	Value added in mining.....do...	4,974	1,198	498	1,912	1,366	(D)	...	...
	Value of shipments and receipts.....do...	6,221	1,372	693	2,439	1,717	(D)	...	...
	Capital expenditures.....do...	1,171	535	105	212	319	(D)	...	...
	Number of producing establishments by type of operation, total.....	139	96	17	18	7	1	...	...
	Mines only:								
	Open-pits.....	61	52	4	5	...	...	...	...
	Combination open-pit and underground mines.....	2	1	...	1	...	...	...	...
	Underground mines.....	20	10	5	3	2	...	...	...
	Mines with preparation plants:								
	Open-pits.....	45	29	5	6	4	1	...	...
	Combination open-pit and underground mines.....	3	1	2	...	...	...	...	...
	Underground mines.....	8	3	1	3	1	...	...	...



Table 4A.—Selected Statistics for Establishments Classified by Employment Size for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—						
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees
1494	NATIVE ASPHALT AND BITUMENS:								
	Number of establishments.....	10	1	1	3	2	2	1	...
	All employees:								
	Number.....	464	56	(D)	(D)	408	(D)	(D)	...
	Payroll.....\$1,000..	2,265	199	(D)	(D)	2,066	(D)	(D)	...
	Production and development workers:								
	Number.....	367	53	(D)	(D)	314	(D)	(D)	...
	Man-hours.....1,000..	732	110	(D)	(D)	622	(D)	(D)	...
	Wages.....\$1,000..	1,398	181	(D)	(D)	1,217	(D)	(D)	...
	Value added in mining.....do...	5,954	954	(D)	(D)	5,000	(D)	(D)	...
	Value of shipments and receipts.....do...	8,041	1,093	(D)	(D)	6,948	(D)	(D)	...
	Capital expenditures.....do...	723	47	...	(D)	676	(D)	(D)	...
	Number of producing establishments by type								
	of operation, total.....	10	1	1	3	2	2	1	...
	Open-pit mines only.....	1	...	1	...	...	...	...	...
	Mines with preparation plants:								
	Open-pits.....	5	...	...	2	1	2	...	...
	Underground mines.....	4	1	...	1	1	...	1	...
1495	PUMICE AND PUMICITE:								
	Number of establishments.....	64	44	10	8	2	...	...	...
	All employees:								
	Number.....	316	68	69	179	(D)	...	...	...
	Payroll.....\$1,000..	1,103	255	280	568	(D)	...	...	...
	Production and development workers:								
	Number.....	271	62	56	153	(D)	...	...	...
	Man-hours.....1,000..	409	108	114	187	(D)	...	...	...
	Wages.....\$1,000..	907	237	234	436	(D)	...	...	...
	Value added in mining.....do...	4,058	755	1,186	2,117	(D)	...	...	...
	Value of shipments and receipts.....do...	5,002	1,091	1,547	2,364	(D)	...	...	...
	Capital expenditures.....do...	580	163	132	285	(D)	...	...	...
	Number of producing establishments by type								
	of operation, total.....	64	44	10	8	2	...	...	...
	Open-pit mines only.....	36	29	4	3	...	...	...	...
	Open-pit mines with preparation plants.....	28	15	6	5	2	...	...	...
1496	TALC, SOAPSTONE, PYROPHYLLITE:								
	Number of establishments.....	64	38	6	8	7	2	2	1
	All employees:								
	Number.....	1,294	51	41	102	246	854	(D)	(D)
	Payroll.....\$1,000..	5,320	175	162	399	988	3,596	(D)	(D)
	Production and development workers:								
	Number.....	1,123	42	38	82	197	764	(D)	(D)
	Man-hours.....1,000..	2,289	69	85	152	399	1,584	(D)	(D)
	Wages.....\$1,000..	4,157	152	146	265	675	2,919	(D)	(D)
	Value added in mining.....do...	11,755	563	505	946	1,964	7,777	(D)	(D)
	Value of shipments and receipts.....do...	14,908	910	522	1,215	2,467	9,794	(D)	(D)
	Capital expenditures.....do...	898	54	157	109	134	444	(D)	(D)
	Number of producing establishments by type								
	of operation, total.....	59	33	6	8	7	2	2	1
	Mines only:								
	Open-pits.....	18	16	2	...	...	...	...	...
	Underground mines.....	18	14	2	2	...	...	...	...
	Mines with preparation plants:								
	Open-pits.....	11	3	2	3	2	...	...	1
	Combination open-pit and underground mines.....	4	...	...	1	1	2	...	...
	Underground mines.....	8	...	...	2	4	...	2	...
1497	NATURAL ABRASIVES, EXCEPT SAND:								
	Number of establishments.....	20	11	4	1	3	...	1	...
	All employees:								
	Number.....	229	11	44	(D)	174	...	(D)	...
	Payroll.....\$1,000..	1,007	25	180	(D)	802	...	(D)	...
	Production and development workers:								
	Number.....	204	11	39	(D)	154	...	(D)	...
	Man-hours.....1,000..	408	15	70	(D)	323	...	(D)	...
	Wages.....\$1,000..	801	25	149	(D)	627	...	(D)	...
	Value added in mining.....do...	2,648	54	604	(D)	1,990	...	(D)	...
	Value of shipments and receipts.....do...	3,373	92	710	(D)	2,571	...	(D)	...
	Capital expenditures.....do...	149	35	32	(D)	82	...	(D)	...

Table 4A.—Selected Statistics for Establishments Classified by Employment Size for the United States: 1958—Continued

Ind. code	Industry and item	All establish- ments, total	Establishments with an average of—						
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees
	NATURAL ABRASIVES, EXCEPT SAND—Continued								
	Number of producing establishments by type								
	of operation, total.....	20	11	4	1	3	...	1	...
	Open-pit mines only.....	4	2	2	...	...	...	...	...
	Open-pit mines with preparation plants.....	16	9	2	1	3	...	1	...
1498	PEAT:								
	Number of establishments.....	81	58	16	4	2	1	...	...
	All employees:								
	Number.....	389	82	103	49	155	(D)	...	...
	Payroll.....\$1,000..	1,282	210	303	166	603	(D)	...	...
	Production and development workers:								
	Number.....	335	80	86	40	129	(D)	...	...
	Man-hours.....1,000..	613	130	156	53	274	(D)	...	...
	Wages.....\$1,000..	974	203	253	113	405	(D)	...	...
	Value added in mining.....do....	3,640	868	715	314	1,743	(D)	...	...
	Value of shipments and receipts.....do....	4,379	894	759	358	2,368	(D)	...	...
	Capital expenditures.....do....	811	247	267	48	249	(D)	...	...
	Number of producing establishments by type								
	of operation, total.....	80	57	16	4	2	1	...	...
	Open-pit mines only.....	20	19	1	...	...	...	...	...
	Open-pit mines with preparation plants.....	60	38	15	4	2	1	...	...
1499	NONMETALLIC MINERALS, NEC:								
	Number of establishments.....	55	26	3	9	8	5	3	1
	All employees:								
	Number.....	1,791	51	19	113	298	369	941	(D)
	Payroll.....\$1,000..	8,610	164	89	443	1,601	1,345	4,968	(D)
	Production and development workers:								
	Number.....	1,344	44	15	83	222	295	685	(D)
	Man-hours.....1,000..	3,018	74	36	172	553	758	1,425	(D)
	Wages.....\$1,000..	5,950	131	65	313	1,132	920	3,389	(D)
	Value added in mining.....do....	23,368	385	130	764	3,412	2,419	16,258	(D)
	Value of shipments and receipts.....do....	31,611	494	162	1,336	5,340	3,390	20,889	(D)
	Capital expenditures.....do....	4,188	168	7	2,211	569	888	325	(D)
	Number of producing establishments by type								
	of operation, total.....	52	24	3	8	8	5	3	1
	Mines only:								
	Open-pits.....	10	10	...	...	...	...	...	...
	Underground mines.....	3	3	...	...	...	...	...	...
	Mines with preparation plants:								
	Open-pits.....	31	9	3	6	7	2	3	1
	Combination open-pit and underground mines.....	4	1	...	2	...	1	...	...
	Underground mines.....	4	1	...	...	1	2	...	...



Table 4B.—Number of Producing Establishments with Preparation Plants Reporting Specified Mineral Preparation Methods, Classified by Employment Size, for the United States: 1958

Ind. code	Industry and mineral preparation method	All establish- ments, total	Establishments with an average of—						
			0-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees
1492	GYPSUM:								
	Number of establishments with preparation plants.....	19	5	5	6	2	...	1	...
	Number of establishments reporting specified preparation method: <sup>1</sup>								
	Crushing, grinding, or pulverizing.....	19	5	5	6	2	...	1	...
	Screening.....	7	1	2	2	1	...	1	...
1493	MICA:								
	Number of establishments with preparation plants.....	56	33	8	9	5	1	...	...
	Number of establishments reporting specified preparation method: <sup>1</sup>								
	Crushing, grinding, or pulverizing.....	49	32	5	8	3	1	...	...
	Drying.....	40	27	5	4	3	1	...	...
	Washing.....	23	9	3	7	3	1	...	...
	Screening.....	20	7	1	8	3	1	...	...
	Air separation, flotation, reclaiming, and spiral separation.....	7	1	1	3	1	1	...	...
1494	NATIVE ASPHALT AND BITUMENS:								
	Number of establishments with preparation plants.....	9	1	...	3	2	2	1	...
	Number of establishments reporting specified preparation method: <sup>1</sup>								
	Crushing, grinding, or pulverizing.....	9	1	...	3	2	2	1	...
	Screening.....	4	...	...	...	1	2	1	...
	Washing.....	4	1	...	1	1	...	1	...
	Drying.....	1	...	...	...	...	...	1	...
1495	PUMICE AND PUMICITE:								
	Number of establishments with preparation plants.....	28	15	6	5	2	...	...	...
	Number of establishments reporting specified preparation method: <sup>1</sup>								
	Crushing, grinding, or pulverizing.....	23	12	6	4	1	...	...	...
	Screening.....	17	10	3	3	1	...	...	...
	Drying.....	4	2	...	2	...	...	...	...
	Air separation.....	2	1	...	1	...	...	...	...
	Sawing.....	2	1	...	...	1	...	...	...
	Washing.....	1	...	...	1	...	...	...	...
1496	TALC, SOAPSTONE, PYROPHYLLITE:								
	Number of establishments with preparation plants.....	23	3	2	6	7	2	2	1
	Number of establishments reporting specified preparation method: <sup>1</sup>								
	Crushing, grinding, or pulverizing.....	22	3	2	6	7	2	2	...
	Drying.....	9	...	...	2	3	2	2	...
	Screening.....	8	...	...	2	2	2	2	...
	Air separation.....	7	...	...	2	2	1	2	...
	Sawing.....	2	...	...	...	1	...	...	1
	Flotation and gravity.....	1	...	...	...	1	...	...	...
1497	NATURAL ABRASIVES, EXCEPT SAND:								
	Number of establishments with preparation plants.....	16	9	2	1	3	...	1	...
	Number of establishments reporting specified preparation method: <sup>1</sup>								
	Crushing, grinding, or pulverizing.....	14	8	2	1	2	1	...	...
	Screening.....	12	8	2	...	1	...	1	...
	Washing.....	10	7	2	...	...	...	1	...
	Drying.....	4	...	...	1	2	...	1	...
	Air separation.....	1	...	...	...	1	...	...	...
	Calcining.....	1	...	...	...	...	...	1	...
	Jigging.....	1	...	...	...	...	...	1	...
	Cutting.....	1	...	...	...	1	...	...	...
1498	PEAT:								
	Number of establishments with preparation plants.....	60	38	15	4	2	1	...	...
	Number of establishments reporting specified preparation method: <sup>1</sup>								
	Shredding.....	47	30	11	3	2	1	...	...
	Drying.....	29	18	6	2	2	1	...	...
	Crushing, grinding, or pulverizing.....	17	9	6	1	1	...	...	...
	Screening.....	7	3	1	2	...	1	...	...
	Air separation.....	2	1	...	...	1	...	...	...
1499	NONMETALLIC MINERALS, NEC:								
	Number of establishments with preparation plants.....	39	11	3	8	8	5	3	1
	Number of establishments reporting specified preparation method: <sup>1</sup>								
	Crushing, grinding, or pulverizing.....	34	10	3	7	7	5	1	1
	Screening.....	26	5	1	6	6	5	3	...
	Drying.....	24	5	1	4	6	5	3	...
	Air separation.....	13	...	...	3	6	2	1	1
	Calcining.....	9	1	...	1	4	2	...	1
	Washing.....	3	...	...	1	...	...	2	...

<sup>1</sup>Some establishments reported more than one mineral preparation method used and are included in the line for each method reported.

Table 5.-Industry-Product Analysis, Summary of Industry Shipments and Receipts and Net Shipments of Primary Products for the United States: 1958 and 1954

Ind. code	Industry and year	Value of shipments and receipts of establishments classified in the industry					Value of net shipments of primary products of the industry shipped by establishments in all industries or receipts for primary services by all industries <sup>1</sup>		
		Total (\$1,000)	Primary products or services (\$1,000)	Secondary products (\$1,000)	Receipts for secondary services (\$1,000)	Products purchased and resold without further processing (\$1,000)	Total (produced or performed in all industries) (\$1,000)	Produced or performed in this industry (\$1,000)	Produced or performed in other industries (\$1,000)
1481	Nonmetallic minerals stripping.....1958..	4,787	4,278	...	509	...	4,317	4,278	39
	1954..	3,124	2,743	...	<sup>2</sup> 390	( <sup>3</sup> )	2,743	2,743	...
1482	Nonmetallic services, nec.....1958..	3,147	3,004	...	143	...	3,054	3,004	50
	1954..	3,447	3,168	...	( <sup>2</sup> )	<sup>3</sup> 270	3,270	3,168	102
1492	Gypsum.....1958..	7,048	7,036	4	8	...	<sup>4</sup> 34,160	7,036	<sup>4</sup> 27,124
	1954..	6,631	6,613	(D)	...	(D)	<sup>4</sup> 31,843	6,613	<sup>4</sup> 25,230
1493	Mica.....1958..	6,221	6,103	113	...	5	10,490	6,103	<sup>5</sup> 4,387
	1954..	4,126	4,083	43	...	...	7,904	4,049	<sup>5</sup> 3,855
1494	Native asphalt and bitumens.....1958..	8,041	8,027	...	14	...	8,027	8,027	...
	1954..	6,424	6,408	...	16	...	6,408	6,408	...
1495	Pumice and pumicite.....1958..	5,002	(D)	(D)	...	...	5,006	(D)	(D)
	1954..	3,393	3,324	(D)	...	(D)	3,489	3,324	165
1496	Talc, soapstone, pyrophyllite.....1958..	14,908	14,607	271	30	...	19,167	(D)	(D)
	1954..	11,819	11,819	...	...	...	14,350	11,574	<sup>5</sup> 2,776
1497	Natural abrasives, except sand.....1958..	3,373	(D)	(D)	...	...	3,510	(D)	(D)
	1954 <sup>6</sup> ..	3,490	(D)	(D)	(D)	...	3,596	(D)	(D)
1498	Peat.....1958..	4,379	(D)	(D)	50	9	4,253	(D)	(D)
	1954..	2,326	2,307	(D)	(D)	...	2,307	2,307	...
1499	Nonmetallic minerals, nec.....1958..	31,611	31,493	111	2	5	31,349	(D)	(D)
	1954..	24,860	24,698	(D)	(D)	(D)	24,466	24,433	33

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>For service industries, represents services performed in the two Nonmetallic Minerals Services Industries only.

<sup>2</sup>Figure for the Nonmetallic Services, NEC, Industry, amounting to less than \$26 thousand, is combined with the figure for the Nonmetallic Minerals Stripping Industry.

<sup>3</sup>Figures for the Nonmetallic Minerals Stripping Industry, amounting to less than \$17 thousand, is combined with the figure for the Nonmetallic Services, NEC, Industry.

<sup>4</sup>Includes the estimated value of gypsum produced and used in the same establishment in the manufacture of calcined gypsum products.

<sup>5</sup>Represents gross shipments from other industries, principally material processed in the manufacturing industries.

<sup>6</sup>See table 1, footnote 16.



Table 6A.—Primary Products and Services of the Nonmetallic Minerals Services and Miscellaneous Minerals, NEC, Industries, Produced or Performed in All Industries, by Regions and States: 1958 and 1954

Type of service		Receipts for services (\$1,000)						
		1958			1954			
NONMETALLIC MINERALS SERVICES								
United States:								
Services for nonmetallic minerals (except fuels) mining industries performed in the Nonmetallic Minerals Services Industries, total..		7,282			6,013			
Stripping overburden and strip mining.....		4,317			2,526			
Prospect, test, and other drilling, including blasting.....		1,558			2,787			
Other services primary to the nonmetallic minerals (except fuels) services industries.....		1,407			700			
Product, region, and State		Unit of measure	1958		1954			
			Total produc- tion (quantity)	Total shipments (including inter- plant transfers)		Total produc- tion (quantity)	Total shipments (including inter- plant transfers)	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
GYPSUM								
United States:								
Crude gypsum, total.....		1,000 short tons	9,384	737	1,414	9,057	( <sup>1</sup> )	( <sup>1</sup> )
Produced by mines classified in the Gypsum Industry.....		..do.....	2,569	737	1,414	2,487	( <sup>1</sup> )	( <sup>1</sup> )
Produced by mines included in establishments classified in the Gypsum Products Industry <sup>2</sup> .....		..do.....	6,815	...	...	6,570	( <sup>1</sup> )	( <sup>1</sup> )
Crushed, ground, screened, or dried gypsum, total.....		..do.....	(NA)	3,829	15,939	(NA)	<sup>1</sup> 3,439	<sup>1</sup> 10,301
Produced at preparation plants included in establishments classified in the Gypsum Industry.....		..do.....	1,830	1,825	5,622	(NA)	<sup>1</sup> 2,479	<sup>1</sup> 6,613
Produced at preparation plants included in establishments classified in the manufacturing industries.....		..do.....	(NA)	2,004	10,317	(NA)	<sup>1</sup> 960	<sup>1</sup> 3,688
Northeast and North Central:								
Crude gypsum, total.....		..do.....	4,565	...	...	(NA)	(NA)	(NA)
Produced by mines classified in the Gypsum Industry.....		..do.....	916	...	...	<sup>3</sup> 1,504	(NA)	(NA)
Produced by mines included in establishments classified in the Gypsum Products Industry.....		..do.....	3,649	...	...	(NA)	(NA)	(NA)
Crushed, ground, screened, or dried gypsum.....		..do.....	(NA)	1,860	8,792	(NA)	(NA)	(NA)
South:								
Crude gypsum, total.....		..do.....	2,179	(D)	(D)	(NA)	(NA)	(NA)
Produced by mines classified in the Gypsum Industry.....		..do.....	451	(D)	(D)	( <sup>3</sup> )	(NA)	(NA)
Produced by mines included in establishments classified in the Gypsum Products Industry.....		..do.....	1,728	...	...	(NA)	(NA)	(NA)
Crushed, ground, screened, or dried gypsum.....		..do.....	(NA)	802	3,604	(NA)	(NA)	(NA)
West:								
Crude gypsum, total.....		..do.....	2,640	(D)	(D)	(NA)	(NA)	(NA)
Produced by mines classified in the Gypsum Industry.....		..do.....	1,202	(D)	(D)	983	(NA)	(NA)
Produced by mines included in establishments classified in the Gypsum Products Industry.....		..do.....	1,438	...	...	(NA)	(NA)	(NA)
Crushed, ground, screened, or dried gypsum, total.....		..do.....	(NA)	1,167	3,543	(NA)	(NA)	(NA)
Produced at preparation plants included in establishments classified in the Gypsum Industry.....		..do.....	662	662	1,587	(NA)	(NA)	(NA)
Produced at preparation plants included in establishments classified in the manufacturing industries.....		..do.....	(NA)	505	1,956	(NA)	(NA)	(NA)
MICA								
United States:								
Hand-cobbed mica.....		1,000 pounds....	3,407	3,395	849	927	927	244
Sheet mica.....		..do.....	407	406	2,702	462	458	2,254
Scrap (or flake) mica.....		Short tons.....	106,326	48,478	989	55,362	55,238	746
Ground mica, total.....		..do.....	(NA)	114,892	5,950	81,112	81,412	4,694
Mined and processed at establishments classified in the mineral industries.....		..do.....	71,831	71,385	2,332	45,021	45,303	1,539
Processed at establishments classified in the manufacturing industries.....		..do.....	(NA)	43,507	3,618	36,091	36,109	3,155
Northeast and North Central:								
Hand-cobbed mica.....		1,000 pounds....	1,897	1,890	479	(NA)	(NA)	(NA)
Sheet mica.....		..do.....	137	137	892	(NA)	(NA)	(NA)
Scrap (or flake) mica.....		Short tons.....	3,598	2,802	79	(NA)	(NA)	(NA)
Ground mica.....		..do.....	(NA)	14,848	1,107	(NA)	(NA)	(NA)
South:								
Hand-cobbed mica.....		1,000 pounds....	1,417	1,412	331	(NA)	(NA)	(NA)
Sheet mica.....		..do.....	268	267	1,789	(NA)	(NA)	(NA)
Scrap (or flake) mica.....		Short tons.....	93,348	44,398	875	(NA)	(NA)	(NA)
Ground mica.....		..do.....	(NA)	86,228	4,318	(NA)	(NA)	(NA)

See footnotes at end of table.

Table 6A.—Primary Products and Services of the Nonmetallic Minerals Services and Miscellaneous Minerals, NEC, Industries, Produced or Performed in All Industries, by Regions and States: 1958 and 1954—Continued

Product, region, and State	Unit of measure	1958			1954		
		Total production (quantity)	Total shipments (including inter-plant transfers)		Total production (quantity)	Total shipments (including inter-plant transfers)	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
MICA —Continued							
South—Continued							
North Carolina:							
Hand-cobbed mica.....	1,000 pounds....	1,346	1,341	316	(NA)	(NA)	(NA)
Sheet mica.....	..do.....	256	255	1,701	136	136	1,800
Scrap (or flake) mica.....	Short tons.....	48,166	30,871	582	34,000	34,000	610
Ground mica.....	..do.....	(NA)	44,877	2,515	44,000	44,000	2,358
West:							
Hand-cobbed mica.....	1,000 pounds....	93	93	39	(NA)	(NA)	(NA)
Sheet mica.....	..do.....	2	2	21	(NA)	(NA)	(NA)
Scrap (or flake) mica.....	Short tons.....	9,380	1,278	35	(NA)	(NA)	(NA)
Ground mica.....	..do.....	(NA)	13,816	525	(NA)	(NA)	(NA)
NATIVE ASPHALT AND BITUMENS							
United States:							
Gilsonite.....	1,000 short tons	317	321	4,700	1,417	1,408	6,408
Bituminous limestone and bituminous sandstone.....	..do.....	1,298	1,298	3,327			
PUMICE AND PUMICITE							
United States and Hawaii.....	..do.....	2,093	2,073	5,486	(NA)	(NA)	(NA)
United States, total.....	..do.....	1,837	1,817	5,006	1,938	1,937	3,489
Mountain.....	..do.....	1,170	1,143	2,579	(NA)	(NA)	(NA)
New Mexico.....	..do.....	492	482	1,032	477	477	1,012
Arizona.....	..do.....	417	400	1,039	(NA)	(NA)	(NA)
Pacific.....	..do.....	574	569	1,950	(NA)	(NA)	(NA)
California.....	..do.....	437	432	1,622	783	782	1,189
Hawaii.....	..do.....	256	256	480	(NA)	(NA)	(NA)
TALC, SOAPSTONE, AND PYROPHYLLITE							
United States:							
Crude:							
Mined and prepared at same establishment.....	..do.....	490	xxx	xxx	485	xxx	xxx
Production and net shipments.....	..do.....	726	5237	51,574	610	5140	51,271
Prepared (crushed, ground, or sawed, including flotation concentrates), total.....	..do.....	(NA)	600	17,593	(NA)	588	13,079
Ore mined and processed at establishments classified in the mineral industries.....	..do.....	453	456	12,908	5469	5465	510,303
Ore processed at establishments classified in the manufacturing industries.....	..do.....	(NA)	144	4,685	(NA)	123	2,776
Northeast and North Central:							
Crude.....	..do.....	286	...	...	228	(NA)	(NA)
Prepared.....	..do.....	(NA)	274	7,936	(NA)	(NA)	(NA)
South:							
Crude.....	..do.....	258	75	386	227	(NA)	(NA)
Prepared.....	..do.....	(NA)	188	5,810	(NA)	(NA)	(NA)
North Carolina:							
Crude.....	..do.....	127	33	143	108	(NA)	(NA)
Prepared.....	..do.....	89	90	2,023	(NA)	(NA)	(NA)
West:							
Crude.....	..do.....	182	5162	51,188	155	(NA)	(NA)
Prepared.....	..do.....	(NA)	138	3,847	(NA)	(NA)	(NA)
California:							
Crude.....	..do.....	116	594	5871	135	(NA)	(NA)
Prepared.....	..do.....	(NA)	110	2,974	(NA)	(NA)	(NA)
NATURAL ABRASIVES, EXCEPT SAND							
United States.....	..do.....	66	65	3,510	79	77	3,596
PEAT							
United States, total.....	..do.....	366	365	4,253	249	248	2,307
Northeast.....	..do.....	62	62	600	47	(NA)	7513
North Central.....	..do.....	165	165	2,837	96	(NA)	71,217
Michigan.....	..do.....	124	124	2,308	(NA)	(NA)	(NA)
South.....	..do.....	46	45	276	45	(NA)	251
West.....	..do.....	93	93	540	61	(NA)	7345

See footnotes at end of table.



Table 6A.—Primary Products and Services of the Nonmetallic Minerals Services and Miscellaneous Minerals, NEC, Industries, Produced or Performed in All Industries, by Regions and States: 1958 and 1954—Continued

Product	Unit of measure	1958			1954		
		Total production (quantity)	Total shipments (including inter-plant transfers)		Total production (quantity)	Total shipments (including inter-plant transfers)	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
Asbestos, crude and prepared.....	1,000 short tons	44	44	4,900	49	50	4,874
Diatomite, prepared.....	do.....	458	452	20,114	461	364	14,562
Perlite:							
Crude.....	do.....	364	18	92	277	277	2,136
Prepared <sup>3</sup> .....	do.....	278	265	2,512			
Other nonmetallic minerals <sup>10</sup> :							
Crude.....	do.....	206	2	35	(NA)	(NA)	2,938
Prepared.....	do.....	204	209	3,696			

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Figures for crude gypsum are included with those for crushed, ground, screened, or dried gypsum.<sup>2</sup>Includes gypsum produced and used in the same establishment in manufacturing gypsum products.<sup>3</sup>Figures for the South are included with those for the Northeast and North Central.<sup>4</sup>Represents full-trim, half-trim, and other sheet mica only.<sup>5</sup>Represents gross shipments less receipts of crude and ground material from other establishments for preparation.<sup>6</sup>Represents production of sawed and ground material only.<sup>7</sup>Includes the value of other products and receipts for services. However, these amounted to only \$19 thousand for the entire United States.<sup>8</sup>Represents net shipments, that is, gross shipments less minerals received from other establishments for preparation.<sup>9</sup>Includes simple preparation methods such as drying and crushing; does not include expansion.<sup>10</sup>Represents such minerals as vermiculite, graphite, and greensand.

Table 6B.—Shipments of Selected Primary Products of the Nonmetallic Minerals, NEC, Industries Distributed by Value Per Ton: 1958

Product and average value per ton f.o.b. mine or plant <sup>1</sup>	Quantity shipped		Value of shipments	
	Short tons <sup>2</sup> (1,000)	Percent of total quantity	Value (\$1,000)	Percent of total value
GYPSUM				
Crude gypsum, total.....	737	100.0	1,414	100.0
Less than \$1.60.....	433	58.8	638	45.1
\$1.60-\$2.94.....	200	27.1	445	31.5
\$2.95 and over.....	104	14.1	331	23.4
Crushed, ground, screened, or dried gypsum, total <sup>3</sup> .....	1,825	100.0	5,622	100.0
Less than \$2.95.....	528	28.9	1,110	19.8
\$2.95-\$3.34.....	1,183	64.8	3,774	67.1
\$3.35 and over.....	114	6.3	738	13.1
MICA				
Hand-cobbed mica, total.....	3,395	100.0	849	100.0
Less than \$2.05.....	341	10.0	58	6.8
\$2.05-\$2.29.....	1,076	31.7	235	27.7
\$2.30-\$2.59.....	871	25.7	216	25.4
\$2.60-\$2.94.....	613	18.1	166	19.6
\$2.95 and over.....	494	14.5	174	20.5
Sheet mica, total.....	406	100.0	2,702	100.0
Less than \$4.30.....	102	25.1	326	12.1
\$4.30-\$4.84.....	32	7.9	149	5.5
\$4.85-\$5.44.....	130	32.0	674	24.9
\$5.45-\$7.84.....	28	6.9	171	6.3
\$7.85-\$11.19.....	53	13.0	516	19.1
\$11.20-\$14.19.....	32	7.9	400	14.8
\$14.20-\$17.99.....	21	5.2	323	12.0
\$18.00 and over.....	8	2.0	143	5.3
Scrap (or flake) mica, total.....	48	100.0	989	100.0
Less than \$10.00.....	8	16.7	71	7.2
\$10.00-\$11.19.....	1	2.1	15	1.5
\$11.20-\$15.99.....	18	37.5	252	25.5
\$16.00-\$20.49.....	2	4.2	41	4.1
\$20.50-\$25.99.....	1	2.1	18	1.8
\$26.00-\$29.49.....	3	6.2	94	9.5
\$29.50 and over.....	15	31.2	498	50.4

See footnotes at end of table.

Table 6B—Shipments of Selected Primary Products of the Nonmetallic Minerals, NEC,  
Industries Distributed by Value Per Ton: 1958—Continued

Product and average value per ton f.o.b. mine or plant <sup>1</sup>	Quantity shipped		Value of shipments	
	Short tons <sup>2</sup> (1,000)	Percent of total quantity	Value (\$1,000)	Percent of total value
MICA--Continued				
Ground mica, total <sup>3</sup> .....	71	100.0	2,332	100.0
\$14.20-\$25.99.....	24	33.8	529	22.7
\$26.00-\$33.49.....	25	35.2	808	34.6
\$33.50 and over.....	22	31.0	995	42.7
PUMICE AND PUMICITE				
Pumice and pumicite, total.....	1,817	100.0	5,006	100.0
Less than \$1.00.....	127	7.0	88	1.8
\$1.00-\$1.41.....	403	22.2	472	9.4
\$1.42-\$1.79.....	135	7.4	231	4.6
\$1.80-\$2.29.....	446	24.6	878	17.6
\$2.30-\$2.94.....	119	6.6	311	6.2
\$2.95-\$3.34.....	371	20.4	1,138	22.7
\$3.35-\$4.84.....	78	4.3	316	6.3
\$4.85-\$7.84.....	108	5.9	547	10.9
\$7.85-\$17.99.....	17	0.9	227	4.5
\$18.00 and over.....	13	0.7	798	16.0
TALC, SOAPSTONE, AND PYROPHYLLITE				
Crude, total.....	237	100.0	1,574	100.0
Less than \$3.35.....	45	19.0	78	4.9
\$3.35-\$5.44.....	57	24.0	278	17.7
\$5.45-\$6.94.....	32	13.5	204	13.0
\$6.95-\$8.84.....	30	12.7	236	15.0
\$8.85 and over.....	73	30.8	778	49.4
Crushed, ground, or sawed; including flotation concentrates, total <sup>3</sup> .....	456	100.0	12,908	100.0
Less than \$11.11.....	62	13.6	594	4.6
\$11.11-\$14.10.....	26	5.7	315	2.4
\$14.11-\$17.90.....	82	18.0	1,326	10.3
\$17.91-\$25.90.....	61	13.4	1,327	10.3
\$25.91 and over.....	225	49.3	9,346	72.4
PEAT				
Peat, total.....	366	100.0	4,253	100.0
Less than \$2.95.....	17	4.6	32	0.8
\$2.95-\$3.79.....	23	6.3	76	1.8
\$3.80-\$4.84.....	56	15.3	244	5.7
\$4.85-\$6.94.....	26	7.1	150	3.5
\$6.95-\$9.99.....	50	13.7	401	9.4
\$10.00-\$11.10.....	33	9.0	335	7.9
\$11.11-\$14.10.....	99	27.0	1,223	28.8
\$14.11-\$17.90.....	8	2.2	123	2.9
\$17.91 and over.....	54	14.8	1,669	39.2

<sup>1</sup>The "average values" are based on the entire shipments of the specified products by each establishment. Thus they are representative of varied average prices among establishments but not variations within an establishment.

<sup>2</sup>For hand-cobbed mica and sheet mica represents pounds.

<sup>3</sup>Represents material prepared in the mineral industries only.

<sup>4</sup>Represents gross shipments less receipts of material from other establishments for preparation.

Table 7.—Supplies Used in the Nonmetallic Minerals Services and the Miscellaneous Minerals, NEC, Industries:  
1958 and 1954

(Detailed figures for the quantity and cost of supplies used were not obtained for these industries. For the total cost of supplies used see table 3. For the quantity and total cost of purchased fuels and electricity used, see table 3.)



Table 8.—General Statistics for Establishments Classified by Output per Man-hour, by Selected Types of Operation for the United States: 1958

Ind. code	Industry, type of operation, and tons per man-hour <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1492	GYPSUM:									
	All establishments, total.....	32	406	1,805	354	776	1,481	5,958	7,048	820
	Less than 0.80.....	3	149	575	138	275	506	908	1,089	318
	0.80-0.99.....	1								
	1.00-1.99.....	5								
	2.00-2.99.....	3	159	762	137	321	627	2,712	3,369	230
	3.00-3.99.....	3								
	4.00-7.99.....	2								
	8.00-9.99.....	2	28	112	26	52	101	738	852	15
	Undistributed <sup>2</sup> .....	13								
	Producing open-pit mines with preparation plants, total.....	17	248	1,184	212	469	949	4,312	5,172	414
	Less than 0.80.....	2	35	130	30	52	110	158	219	...
	1.00-1.99.....	3								
	2.00-2.99.....	2								
	3.00-5.99.....	3	162	773	140	324	638	2,857	3,525	228
	6.00-7.99.....	1								
	Undistributed <sup>2</sup> .....	6								
1494	NATIVE ASPHALT AND BITUMENS:									
	All establishments, total.....	10	464	2,265	367	732	1,398	5,954	8,041	723
	Less than 0.90.....	5	95	408	88	202	390	1,032	1,233	43
	1.80-4.99.....	3								
	Undistributed <sup>2</sup> .....	2								
1495	PUMICE AND PUMICITE:									
	All establishments, total.....	64	316	1,103	271	409	907	4,058	5,002	580
	Less than 0.50.....	6	96	267	78	92	175	863	868	177
	0.50-0.99.....	1								
	1.00-1.99.....	4								
	2.00-2.99.....	7	55	202	50	103	189	525	658	124
	3.00-3.99.....	4								
	4.00-4.99.....	3								
	6.00-9.99.....	3	32	123	30	47	115	630	802	8
	10.00 and over.....	4								
	Undistributed <sup>2</sup> .....	32								
1496	TALC, SOAPSTONE, AND PYROPHYLLITE:									
	All establishments, total.....	64	1,294	5,320	1,123	2,289	4,157	11,755	14,908	898
	Less than 0.10.....	6	438	1,368	417	855	1,201	2,692	3,158	236
	0.10-0.29.....	7								
	0.30-0.49.....	7								
	0.50-0.79.....	8	67	227	54	109	155	590	773	101
	0.80-0.99.....	4								
	1.00-1.99.....	2								
	2.00-7.00.....	4	17	108	11	23	64	473	491	29
	Undistributed <sup>2</sup> .....	26								
	Producing underground mines with preparation plants, total.....	8	507	2,772	411	849	2,078	6,322	7,759	291
	Less than 0.30.....	4	304	1,672	244	488	1,234	2,763	3,607	118
	0.30-0.49.....	4								
1498	PEAT:									
	All establishments, total.....	81	389	1,282	335	613	974	3,640	4,379	811
	Less than 0.20.....	4	11	62	10	26	56	189	192	41
	0.20-0.29.....	6								
	0.30-0.49.....	8								
	0.50-0.79.....	6	54	203	43	73	123	358	387	75
	0.80 and over.....	4								
	Undistributed <sup>2</sup> .....	53								

<sup>1</sup>Represents tons of primary products of the industry shipped per man-hour worked by production and development workers.<sup>2</sup>Represents establishments with no shipments or no production or development worker man-hours, or with cost of contract work amounting to 30 percent or more of production and development worker wages, or with number of working proprietors amounting to 30 percent or more of number of production and development workers, or with man-hours spent on development and exploration work amounting to 30 percent or more of total man-hours reported.

Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Region: 1958

Ind. code	Industry, region, and ratio of payroll to value added in mining <sup>1</sup>	Establishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1481	NONMETALLIC MINERALS STRIPPING:									
	United States, total.....	47	626	1,907	588	1,069	1,636	3,780	4,787	591
	Less than 0.19.....	4	15	29	12	19	28	193	223	22
	0.20-0.29.....	11	46	137	45	79	133	523	577	200
	0.30-0.39.....	12	116	500	98	150	338	1,419	1,900	159
	0.40-0.49.....	5	41	211	37	80	161	468	657	45
	0.50-0.59.....	6	50	186	44	85	153	322	425	37
	0.60 and over.....	6	352	813	348	642	798	849	996	126
	Undistributed <sup>2</sup> .....	3	6	31	4	14	25	6	9	2
1482	NONMETALLIC SERVICES, NEC:									
	United States, total.....	28	483	1,615	449	824	1,402	2,437	3,147	257
	0.10-0.29.....	5	21	86	19	37	64	385	442	99
	0.30-0.59.....	9	58	152	52	87	136	311	453	32
	0.60-0.89.....	10	387	1,290	364	672	1,145	1,652	1,963	113
	1.00 and over.....	2	17	87	14	28	57	89	289	13
	Undistributed <sup>2</sup> .....	2								
1492	GYPSUM:									
	United States, total.....	32	406	1,805	354	776	1,481	5,958	7,048	820
	0.10-0.29.....	11	211	1,025	181	421	809	4,684	5,327	332
	0.30-0.59.....	6	82	283	76	160	239	635	755	154
	0.60-0.79.....	5	84	394	77	151	345	556	814	330
	0.80 and over.....	4	21	87	17	30	76	77	121	...
	Undistributed <sup>2</sup> .....	6	8	16	3	14	12	6	31	4
1493	MICA:									
	United States, total.....	149	727	2,007	649	1,204	1,709	4,974	6,221	1,171
	Less than 0.10.....	6	14	19	14	14	19	263	174	130
	0.10-0.19.....	9	56	151	55	123	148	900	1,044	229
	0.20-0.29.....	18	128	264	119	214	262	1,088	1,120	176
	0.30-0.39.....	15	91	250	82	132	186	746	881	104
	0.40-0.49.....	6	22	52	21	35	49	119	156	22
	0.50-0.59.....	7	93	313	86	146	282	551	698	36
	0.60-0.69.....	7	100	354	88	193	284	486	863	49
	0.70-0.99.....	8	119	391	105	218	305	524	667	239
	1.00 and over.....	10	61	115	42	63	96	44	115	25
	Undistributed <sup>2</sup> .....	63	43	98	37	66	78	253	503	161
1494	NATIVE ASPHALT AND BITUMENS:									
	United States, total.....	10	464	2,265	367	732	1,398	5,954	8,041	723
	0.10-0.29 and undistributed <sup>2</sup> .....	3	135	735	80	175	260	1,498	1,998	182
	0.30-0.89.....	7	329	1,530	287	557	1,138	4,456	6,043	541
1495	PUMICE AND PUMICITE:									
	United States, total.....	64	316	1,103	271	409	907	4,058	5,002	580
	Less than 0.19.....	9	56	207	51	86	184	1,607	1,833	108
	0.20-0.29.....	9	90	240	71	75	156	1,000	979	179
	0.30-0.39.....	8	49	185	44	72	163	533	669	77
	0.40-0.59.....	9	78	326	66	111	269	674	1,012	98
	0.60-0.99.....	6	17	70	16	29	66	86	214	60
	1.00 and over.....	4	19	44	16	26	40	39	75	10
	Undistributed <sup>2</sup> .....	19	7	31	7	10	29	119	220	48
1496	TALC, SOAPSTONE, PYROPHILLITE:									
	United States, total.....	64	1,294	5,320	1,123	2,289	4,157	11,755	14,908	898
	Less than 0.29.....	10	199	1,078	159	339	807	3,972	4,383	326
	0.30-0.39.....	10	113	409	97	202	320	1,168	1,558	120
	0.40-0.49.....	5	86	346	75	138	250	826	1,043	57
	0.50-0.59.....	11	533	1,602	505	1,031	1,404	3,066	3,902	227
	0.60-0.99.....	6	288	1,472	241	488	1,152	2,304	3,316	137
	1.00 and over.....	5	58	309	44	86	212	248	354	5
	Undistributed <sup>2</sup> .....	17	17	104	2	5	12	171	352	26
	South, total.....	18	729	2,184	670	1,362	1,815	4,607	5,838	494
	Less than 0.29.....	4	52	139	45	85	121	548	586	147
	0.30-0.49.....	4	107	388	89	173	261	1,018	1,187	98
	0.50-0.59.....	5	487	1,440	466	954	1,269	2,774	3,512	208
	0.60 and over.....	3								
	Undistributed <sup>2</sup> .....	2	83	217	70	150	164	267	553	41
1497	NATURAL ABRASIVES, EXCEPT SAND:									
	United States, total.....	20	229	1,007	204	408	801	2,648	3,373	149
	0.10-0.29.....	5	52	251	45	81	172	1,456	1,639	43
	0.50-0.69.....	4	118	551	107	237	458	937	1,351	85
	0.70 and over.....	4	57	199	50	88	165	252	355	20
	Undistributed <sup>2</sup> .....	7	2	6	2	2	6	3	28	1

See footnotes at end of table.



Table 9.—General Statistics for Establishments Classified by Ratio of Payroll to Value Added in Mining, by Region: 1958—Continued

Ind. code	Industry, region, and ratio of payroll to value added in mining <sup>1</sup>	Estab-lishments, number	All employees		Production and development workers			Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1498	PEAT:									
	United States, total.....	81	389	1,282	335	613	974	3,640	4,379	811
	Less than 0.19.....	12	23	32	22	23	30	260	212	108
	0.20-0.29.....	13	87	264	77	161	218	1,016	1,233	329
	0.30-0.39.....	10	105	417	94	199	324	1,269	1,720	157
	0.40-0.49.....	9	33	106	28	57	91	253	255	64
	0.50-0.59.....	11	58	158	52	71	136	286	308	73
	0.60-0.79.....	6	60	238	41	67	113	317	376	49
	0.80 and over.....	7	22	66	20	34	61	65	82	19
	Undistributed <sup>2</sup> .....	13	1	1	1	1	1	174	193	12
1499	NONMETALLIC MINERALS, NEC:									
	United States, total.....	55	1,791	8,610	1,344	3,018	5,950	23,368	31,611	4,188
	Less than 0.19.....	5	9	20	8	11	17	125	87	74
	0.20-0.29.....	8	575	3,372	441	987	2,432	13,064	16,893	479
	0.30-0.39.....	9	500	2,201	360	859	1,475	6,269	7,978	1,205
	0.40-0.59.....	8	174	923	138	290	697	1,864	2,725	122
	0.60-0.69.....	7	172	577	154	344	458	934	1,395	163
	0.70-0.99.....	7	174	666	131	215	417	831	1,473	130
	1.00 and over.....	6	148	639	104	295	424	327	1,022	23
	Undistributed <sup>2</sup> .....	5	39	212	8	17	30	(3)	38	1,992

<sup>1</sup>Note that in computing these ratios contract or subcontract employment serving the establishment is excluded. The cost of contract or subcontract work expressed as a percent of payroll for 1958 was: for Nonmetallic minerals services, 7 percent; for Nonmetallic services, nec, 1 percent; for Gypsum, 4 percent; for Mica, 15 percent; for Native asphalt and bitumens, 18 percent; for Pumice and pumicite, 14 percent; for Talc, soapstone, pyrophyllite, 5 percent; for Natural abrasives, except sand, 7 percent; for Peat, 10 percent; and for Nonmetallic minerals, nec, 13 percent.

<sup>2</sup>Represents establishments with zero or negative value added; establishments with no employees; and for number of employees and payroll, includes figures for separately reported central offices and related facilities.

<sup>3</sup>Not shown since cost of supplies, fuels, purchased electricity, contract work, and purchased machinery exceeds value of shipments and receipts plus capital expenditures.

Table 10.—Value Added in Mining per Employee by Size of Establishment for the United States: 1958

Ind. code	Industry and value added per employee class <sup>1</sup>	Number of—		Number of establishments with average employment of—						
		Estab-lishments	Employees	0-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1481	NONMETALLIC MINERALS STRIPPING, TOTAL.....	47	626	44	2	...	...	1	...	...
	Less than \$4,000.....	4	333	3	...	...	...	1	...	...
	\$4,000-\$5,999.....	7	54	6	1	...	...	...	...	...
	\$6,000-\$9,999.....	9	67	9	...	...	...	...	...	...
	\$10,000-\$12,499.....	10	100	9	1	...	...	...	...	...
	\$12,500-\$17,499.....	8	48	8	...	...	...	...	...	...
	\$20,000 and over.....	6	18	6	...	...	...	...	...	...
	Undistributed <sup>2</sup> .....	3	6	3	...	...	...	...	...	...
1482	NONMETALLIC SERVICES, NEC, TOTAL.....	28	483	25	1	1	1	...	...	...
	Less than \$4,000 and undistributed <sup>2</sup> .....	7	240	6	...	...	1	...	...	...
	\$4,000-\$5,999.....	10	152	9	...	1	...	...	...	...
	\$6,000-\$7,999.....	6	65	5	1	...	...	...	...	...
	\$10,000 and over.....	5	26	5	...	...	...	...	...	...
1492	GYPSUM, TOTAL.....	32	406	28	2	1	1	...	...	...
	Less than \$4,000.....	4	18	4	...	...	...	...	...	...
	\$5,000-\$6,999.....	5	91	4	...	1	...	...	...	...
	\$7,000-\$8,999.....	4	59	3	1	...	...	...	...	...
	\$10,000-\$19,999.....	6	156	5	...	...	1	...	...	...
	\$20,000 and over.....	7	74	6	1	...	...	...	...	...
	Undistributed <sup>2</sup> .....	6	8	6	...	...	...	...	...	...
1493	MICA, TOTAL.....	149	727	141	7	1	...	...	...	...
	Less than \$3,000.....	22	133	20	2	...	...	...	...	...
	\$3,000-\$3,999.....	13	105	13	...	...	...	...	...	...
	\$4,000-\$5,999.....	15	199	12	2	1	...	...	...	...
	\$6,000-\$7,999.....	8	56	7	1	...	...	...	...	...
	\$8,000-\$9,999.....	10	90	8	2	...	...	...	...	...
	\$10,000-\$12,499.....	12	50	12	...	...	...	...	...	...
	\$12,500-\$19,999.....	5	51	5	...	...	...	...	...	...
	\$20,000 and over.....	7	14	7	...	...	...	...	...	...
	Undistributed <sup>2</sup> .....	57	29	57	...	...	...	...	...	...
1494	NATIVE ASPHALT AND BITUMENS, TOTAL.....	10	464	5	2	2	1	...	...	...
	Less than \$12,500 and undistributed <sup>2</sup> .....	4	181	2	1	1	...	...	...	...
	\$12,500 and over.....	6	283	3	1	1	1	...	...	...
1495	PUMICE AND PUMICITE, TOTAL.....	64	316	62	2	...	...	...	...	...
	Less than \$4,000.....	6	38	6	...	...	...	...	...	...
	\$4,000-\$5,999.....	6	17	6	...	...	...	...	...	...
	\$6,000-\$8,999.....	7	81	6	1	...	...	...	...	...
	\$9,000-\$14,999.....	10	103	9	1	...	...	...	...	...
	\$15,000-\$19,999.....	8	26	8	...	...	...	...	...	...
	\$20,000 and over.....	8	44	8	...	...	...	...	...	...
	Undistributed <sup>2</sup> .....	19	7	19	...	...	...	...	...	...
1496	TALC, SOAPSTONE, PYROPHYLLITE, TOTAL.....	64	1,294	52	7	2	2	1	...	...
	Less than \$3,000.....	6	91	5	...	1	...	...	...	...
	\$3,000-\$4,999.....	6	28	6	...	...	...	...	...	...
	\$5,000-\$6,999.....	10	774	4	3	1	1	1	...	...
	\$7,000-\$8,999.....	8	67	7	1	...	...	...	...	...
	\$9,000-\$12,499.....	6	140	3	3	...	...	...	...	...
	\$12,500-\$17,499.....	6	29	6	...	...	...	...	...	...
	\$17,500 and over.....	5	148	4	...	...	1	...	...	...
	Undistributed <sup>2</sup> .....	17	17	17	...	...	...	...	...	...
1497	NATURAL ABRASIVES, EXCEPT SAND, TOTAL.....	20	229	16	3	...	1	...	...	...
	Less than \$6,000.....	5	61	3	2	...	...	...	...	...
	\$6,000-\$8,999.....	5	118	4	...	...	1	...	...	...
	\$15,000 and over.....	3	48	2	1	...	...	...	...	...
	Undistributed <sup>2</sup> .....	7	2	7	...	...	...	...	...	...
1498	PEAT, TOTAL.....	81	389	78	2	1	...	...	...	...
	Less than \$4,000.....	14	67	14	...	...	...	...	...	...
	\$4,000-\$5,999.....	9	32	9	...	...	...	...	...	...
	\$6,000-\$7,999.....	13	68	12	1	...	...	...	...	...
	\$8,000-\$9,999.....	12	43	12	...	...	...	...	...	...
	\$10,000-\$14,999.....	12	157	10	1	1	...	...	...	...
	\$15,000 and over.....	8	21	8	...	...	...	...	...	...
	Undistributed <sup>2</sup> .....	13	1	13	...	...	...	...	...	...
1499	NONMETALLIC MINERALS, NEC, TOTAL.....	55	1,791	38	8	5	3	1	...	...
	Less than \$4,000.....	13	258	10	...	3	...	...	...	...
	\$4,000-\$5,999.....	6	162	3	2	1	...	...	...	...
	\$6,000-\$7,999.....	7	76	6	1	...	...	...	...	...
	\$8,000-\$9,999.....	6	90	4	2	...	...	...	...	...
	\$10,000-\$12,499.....	8	498	5	...	...	3	...	...	...
	\$12,500-\$17,499.....	6	80	4	2	...	...	...	...	...
	\$17,500 and over.....	5	600	2	1	1	...	1	...	...
	Undistributed <sup>2</sup> .....	4	27	4	...	...	...	...	...	...

<sup>1</sup>See table 9, footnote 1.<sup>2</sup>Represents establishments with no employees or with negative value added in mining, and for number of employees, figures for separately reported central offices and related facilities.



Table 11.—Hourly Earnings of Production and Development Workers for Establishments with 10 or more Employees by Geographic Divisions: 1958

Ind. code	Industry by hourly earnings classes	Number of —		Number of establishments with 10 or more employees in —								
		Estab-lish-ments	Em-ployees	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
1481	NONMETALLIC MINERALS STRIPPING,											
	TOTAL.....	10	475	...	...	...	2	1	2	...	5	...
	\$1.00-\$1.99.....	6	385	...	...	...	1	1	2	...	2	...
	\$2.00-\$3.49.....	4	90	...	...	...	1	...	...	...	3	...
1482	NONMETALLIC SERVICES, NEC,											
	TOTAL.....	9	423	...	1	2	...	...	2	1	3	...
	Less than \$1.99.....	6	312	...	...	1	...	...	2	1	2	...
	\$2.00-\$2.49.....	3	111	...	1	1	...	...	...	...	1	...
1492	GYPSUM, TOTAL.....	11	335	...	1	1	...	...	...	4	3	2
	\$1.00-\$1.99.....	6	237	...	...	1	...	...	...	3	1	1
	\$2.00-\$3.49.....	5	98	...	1	...	...	...	...	1	2	1
1493	MICA, TOTAL.....	26	501	5	...	...	...	17	2	...	1	1
	Less than \$1.49.....	17	337	2	...	...	...	13	2	...	...	...
	\$1.50-\$1.99.....	5	99	2	...	...	...	3	...	...	...	...
	\$2.00-\$2.99.....	4	65	1	...	...	...	1	...	...	1	1
1494	NATIVE ASPHALT AND BITUMENS,											
	TOTAL.....	8	(D)	...	...	...	1	...	1	3	3	...
	\$1.00-\$1.99.....	5	229	...	...	...	1	...	1	3	...	...
	\$2.00-\$2.99.....	3	(D)	...	...	...	...	...	...	...	3	...
1495	PUMICE AND PUMICITE, TOTAL.....	10	179	...	...	...	...	...	...	2	3	5
	\$1.50-\$1.99.....	5	68	...	...	...	...	...	...	1	1	3
	\$2.00-\$4.49.....	5	111	...	...	...	...	...	...	1	2	2
1496	TALC, SOAPSTONE, PYROPHYLLITE,											
	TOTAL.....	20	1,202	4	2	...	...	10	...	1	...	3
	Less than \$1.49.....	8	624	...	...	...	...	7	...	1	...	...
	\$1.50-\$1.99.....	6	164	4	...	...	...	2	...	...	...	...
	\$2.00-\$2.99.....	6	414	...	2	...	...	1	...	...	...	3
1497	NATURAL ABRASIVES, TOTAL.....	5	(D)	...	1	2	2	...	...	...	...	...
	\$1.00-\$1.99.....	2	(D)	...	1	1	...	...	...	...	...	...
	\$2.00-\$2.49.....	3	62	...	...	1	2	...	...	...	...	...
1498	PEAT, TOTAL.....	7	204	...	3	4	...	...	...	...	...	...
	\$1.00-\$1.99.....	4	165	...	1	3	...	...	...	...	...	...
	\$2.00-\$2.99.....	3	39	...	2	1	...	...	...	...	...	...
1499	NONMETALLIC MINERALS, NEC, TOTAL.	26	1,721	1	1	...	...	1	...	1	15	7
	Less than \$1.49.....	6	328	...	...	...	...	...	...	...	3	3
	\$1.50-\$1.99.....	10	601	1	1	...	...	1	...	1	6	1
	\$2.00-\$2.49.....	5	236	...	...	...	...	...	...	...	4	...
	\$2.50-\$2.99.....	5	556	...	...	...	...	...	...	...	2	3

D Withheld to avoid disclosing figures for individual companies.

Table 12.—Distribution of Operating Companies by Employment Size and by Number of Establishments for the United States: 1958

Ind. code	Industry by establishment count	Operating companies	Number of—		Number of establishments with average employment of—								
			Estab-lish-ments	Em-ployees	0-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1,000 and over
1481	NONMETALLIC MINERALS STRIPPING,												
	TOTAL.....	46	47	626	21	16	7	2	...	...	1	...	...
	Multiunit companies, total.....	3	4	84	1	...	2	1	...	...	...	...	...
	1 establishment <sup>1</sup> .....	2	2	84	1	...	1	...	...	...	...	...	...
	2 establishments.....	1	2	...	...	...	1	1	...	...	...	...	...
	Single unit companies.....	43	43	542	20	16	5	1	...	...	1	...	...
1482	NONMETALLIC SERVICES, NEC, TOTAL..	28	28	483	14	5	6	1	1	1	...	...	...
	Multiunit companies (all establishments) <sup>1</sup> .....	3	3	253	1	...	1	...	...	1	...	...	...
	Single unit companies.....	25	25	230	13	5	5	1	1	...	...	...	...
1492	GYP SUM, TOTAL.....	29	32	406	13	8	7	2	1	1	...	...	...
	Multiunit companies, total.....	9	12	339	...	2	6	2	1	1	...	...	...
	1 establishment <sup>1</sup> .....	7	7	...	...	1	3	1	1	1	...	...	...
	2 establishments.....	1	2	339	...	1	1	...	...	...	...	...	...
	3 or 4 establishments.....	1	3	...	...	2	1	...	...	...	...	...	...
	Single unit companies.....	20	20	67	13	6	1	...	...	...	...	...	...
1493	MICA, TOTAL.....	142	149	727	106	17	18	7	1	...	...	...	...
	Multiunit companies, total.....	6	13	161	5	3	2	2	1	...	...	...	...
	1 establishment <sup>1</sup> .....	4	5	...	2	...	2	...	1	...	...	...	...
	2 establishments.....	1	2	161	2	...	...	...	...	...	...	...	...
	5 or 6 establishments.....	1	6	...	1	3	...	2	...	...	...	...	...
	Single unit companies.....	136	136	566	101	14	16	5	...	...	...	...	...
1494	NATIVE ASPHALT AND BITUMENS,												
	TOTAL.....	8	10	464	1	1	3	2	2	1	...	...	...
	Multiunit companies, total.....	5	7	415	1	...	2	1	2	1	...	...	...
	1 establishment <sup>1</sup> .....	4	4	415	...	...	1	...	2	1	...	...	...
	3 or 4 establishments.....	1	3	...	1	...	1	1	...	...	...	...	...
	Single unit companies.....	3	3	49	...	1	1	1	...	...	...	...	...
1495	PUMICE AND PUMICITE, TOTAL.....	63	64	316	44	10	8	2	...	...	...	...	...
	Multiunit companies, total.....	13	14	87	8	2	4	...	...	...	...	...	...
	1 establishment <sup>1</sup> .....	12	12	87	7	2	3	...	...	...	...	...	...
	2 establishments.....	1	2	...	1	...	1	...	...	...	...	...	...
	Single unit companies.....	50	50	229	36	8	4	2	...	...	...	...	...
1496	TALC, SOAPSTONE, PYROPHYLLITE,												
	TOTAL.....	43	64	1,294	38	6	8	7	2	2	1	...	...
	Multiunit companies, total.....	16	37	878	22	4	2	6	1	1	1	...	...
	1 establishment <sup>1</sup> .....	8	8	379	5	1	1	...	...	...	1	...	...
	2 establishments.....	5	10	353	4	1	...	3	1	1	...	...	...
	3 or 4 establishments.....	2	7	...	2	1	1	3	...	...	...	...	...
	10 to 14 establishments.....	1	12	146	11	1	...	...	...	...	...	...	...
	Single unit companies.....	27	27	416	16	2	6	1	1	1	...	...	...
1497	NATURAL ABRASIVES, EXCEPT SAND,												
	TOTAL.....	20	20	229	11	4	1	3	...	1	...	...	...
	Multiunit companies (all establishments) <sup>1</sup> .....	3	3	48	1	...	...	2	...	...	...	...	...
	Single unit companies.....	17	17	181	10	4	1	1	...	1	...	...	...
1498	PEAT, TOTAL.....	80	81	389	58	16	4	2	1	...	...	...	...
	Multiunit companies, total.....	2	3	(D)	3	...	...	...	...	...	...	...	...
	1 establishment <sup>1</sup> .....	1	1	(D)	1	...	...	...	...	...	...	...	...
	2 establishments.....	1	2	(D)	2	...	...	...	...	...	...	...	...
	Single unit companies.....	78	78	(D)	55	16	4	2	1	...	...	...	...
1499	NONMETALLIC MINERALS, NEC,												
	TOTAL.....	47	55	1,791	26	3	9	8	5	3	1	...	...
	Multiunit companies, total.....	13	21	1,477	5	...	2	7	3	3	1	...	...
	1 establishment <sup>1</sup> .....	9	9	883	3	...	...	3	1	1	1	...	...
	2 establishments.....	3	6	...	1	...	2	1	...	2	...	...	...
	5 or 6 establishments.....	1	6	594	1	...	...	3	2	...	...	...	...
	Single unit companies.....	34	34	314	21	3	7	1	2	...	...	...	...

D Withheld to avoid disclosing of figures for individual companies.

<sup>1</sup>Represents companies having at least one establishment classified in other industries.



# APPENDIX A.--ALPHABETIC INDEX OF PRODUCTS OF MINERAL ESTABLISHMENTS

This index provides an alphabetic listing of mineral products and mining services of establishments engaged in mineral operations. It includes all products and services for which statistics are shown in table 6A of the industry reports, whether shown separately or as part of a group of items. The index lists products and services referred to in the industry descriptions in the introductory text to the industry reports. Product statistics are also shown in tables 1, 2, 3, and 6B of the industry reports, but the commodities covered in

these tables are also included in table 6A, frequently with statistics in somewhat different detail. No references are here included to product statistics appearing in summary or area reports. It should be noted that the General Summary Report includes, as table 7, a tabulation of the quantity and value of selected mineral products of each mineral producing industry as reported, for 1958, by the Bureau of the Census and the Bureau of Mines.

Product	Page	Product	Page
<b>A</b>			
Abrasives, natural, except sand.....	14F-2, 20	Cement rock. See Limestone.....	14B-1
Acidizing and other chemical treatment of wells.....	13D-1, 36, 37	Cementing wells.....	13D-1, 36-37
Aluminum ores. See Bauxite.....	10D-1	Chemical and fertilizer mineral mining, nec.....	14E-1, 15-16
Andalusite. See Clay, ceramic, and refractory minerals, nec.....	14D-1	China clay. See Kaolin or Ball clay....	14D-1
Anthracite.....	11B-1, 14	Chromium ores and concentrates.....	10D 1, 14
Anthracite mining services, except strip mining. See also specific kind..	11B-1	Clay, ceramic, and refractory minerals, nec.....	14D-1, 18-19 (ftn. 12-16)
Anthracite stripping services. See also Strip mining for others on contract....	11B-1	Cleaning out, bailing out, and swabbing wells.....	13D-1, 36-37
Antimony ores. See Metallic minerals (ores), nec.....	10E-2	Clean-up services.....	14F-1
Aplite. See Clay, ceramic, and refractory minerals, nec.....	14D-1, 19 (ftn. 13, 15)	Cobalt ores.....	10D-1
Argillite. See Stone, nec, dimension..	14B-1	Colemanite.....	14E-1
Arsenic minerals. See Chemical and fertilizer mineral mining, nec.....	14E-1	Columbium ores.....	10D-1
Asbestos, crude and prepared.....	14F-2, 21 and ftn. 8	Common clay and shale. See clay, ceramic, and refractory minerals, nec..	14D-1, 18-19 (ftn. 12, 14-16)
Asphalt, native, and bitumens.....	14F-2, 20	Common sand. See Sand, common	
Auger mining services, Bituminous coal and lignite.....	12A-1, 42	Copper concentrates.....	10C-1, 24
<b>B</b>		Copper ores.....	10C-1, 24, 32 (ftn. 2)
Ball clay, crude and prepared.....	14D-1, 17, 19 (ftn. 8, 9)	Copper precipitates.....	10C-24
Barite, crude and prepared.....	14E-1, 15, 16 (ftn. 2-4)	Copper tailings.....	10C-24, 32 (ftn. 2)
Basalt. See Trap rock.....	14B-1	Corundum. See Abrasives, natural, except sand.....	14F-2
Bastnaesite concentrates.....	10E-19	Crude petroleum.....	13B-1, 34-43
Bauxite, crude and prepared.....	10D-1, 12, 14 (ftn. 1, 2)	Cycle condensate.....	13C-1, 11
Bentonite, crude and prepared.....	14D-1, 16	<b>D</b>	
Beryllium ores and concentrates. See Metallic minerals (ores), nec.....	10E-2, 19	Diabase. See Trap rock.....	14B-1
Bituminous coal.....	12A-1, 40-41, 42 (ftn. 1, 2)	Diamonds, industrial. See Abrasives, natural, except sand.....	14F-2
Bituminous coal and lignite mining services, except stripping, nec. See also specific kind.....	12A-1, 42 and ftn. 7	Diaspore. See Fire clay.....	14D-1
Bituminous coal and lignite stripping and auger mining services. See also Stripping overburden on contract and strip mining for others on contract....	12A-1, 42 and ftn. 4-7	Diatomite.....	14F-2, 21 and ftn. 8
Bluestone. See Stone, nec, crushed and broken.....	14B-1	Diorite. See Granite.....	14B-1
Borax. See Sodium borates.....	14E-1	Dolomite. See Limestone.....	14B-1
Boron compounds. See Potash, soda, and borate minerals.....	14E-1, 15, 16 (ftn. 3, 10)	Draining mines on contract. See Pumping or draining mines services	
Boulders, mixed. See Stone, nec, crushed and broken.....	14B-1	Drilling in, spudding in, tailing in, and reworking wells.....	13D-35
Brucite.....	14D-1, 18, 19 (ftn. 10, 11)	Drilling services:	
Building foundations at oil well locations.....	13D-1	Oil and gas wells.....	13D-1, 35
Building, repairing, and dismantling rigs and derricks.....	13D-36-37	Other than prospect or test drilling:	
Burrstones.....	14B-1	For metal mining establishments....	10E-17
<b>C</b>		For anthracite mining establishments	11B-14
Calcareous tufa. See Limestone.....	14B-1	For bituminous coal and lignite mining establishments.....	12A-42
Calcite, optical grade. See Iceland spar.....	14F-2	For nonmetallic minerals mining establishments.....	14F-1, 19
		Prospect and test drilling:	
		For metal mining establishments....	10E-1, 17
		For anthracite mining establishments	11B-1, 14
		For bituminous coal and lignite mining establishments.....	12A-1, 42
		For nonmetallic minerals mining establishments.....	14F-1, 19
		Drips.....	13B-34-43; 13C-1
		Dumortierite. See Clay, ceramic, and refractory minerals, nec.....	14D-1

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Product	Page	Product	Page
<b>E</b>		<b>L</b>	
Emery. See Abrasives, natural, except sand.....	14F-2	Kyanite. See Clay, ceramic, and refractory minerals, nec.....	14D-1, 19 (ftn. 13, 15)
Erecting, cleaning, repairing, and dismantling lease tanks.....	13D-36-37		
Excavating slush pits and cellars.....	13D-1, 36-37	Laterite. See Clay, ceramic, and refractory minerals, nec.....	14D-1
Exploration work on contract:		Lead concentrates.....	10C-24-28
For metal mining establishments.....	10E-17	Lead ores.....	10C-1, 24-28, 32 (ftn. 7)
For anthracite mining establishments..	11B-14	Lead tailings.....	10C-24-28
Oil and gas field.....	13D-1, 35-36	Lead-zinc ores.....	10C-1
For nonmetallic minerals mining establishments.....	14F-1	Lignite.....	12A-1, 40-41
<b>F</b>		Lignite mining services. See Bituminous coal and lignite stripping and auger mining services and Bituminous coal and lignite mining services, except stripping, nec.	
Feldspar, crude and prepared.....	14D-1, 17	Limestone, bituminous.....	14F-2, 20
Ferberite. See Tungsten ores.....	10D-1	Limestone, crushed and broken.....	14B-1, 33-36
Ferroalloy ores, except vanadium.....	10D-1, 13-14	Limestone, dimension, rough and dressed..	14B-1, 31-32
Ferroalloy ores, except vanadium, nec...	10D-1, 14	Liquefied petroleum gas.....	13C-1
Field condensate.....	13B-34-43; 13C-1	Lithium minerals. See Chemical and fertilizer mineral mining, nec.....	14E-1
Fire clay, crude and prepared.....	14D-1, 16-17, 19 (ftn. 3, 5, 6)	Lode gold. See Gold, lode	
Fluorspar, crude and prepared.....	14E-1, 15, 16 (ftn. 3, 6)	<b>M</b>	
Fuller's earth.....	14D-1, 17, 19 (ftn. 7)	Magnesite.....	14D-1, 18, 19 (ftn. 10, 11)
<b>G</b>		Manganese concentrates and agglomerates..	10D-13
Gabbro. See Granite.....	14B-1	Manganese ores.....	10D-1, 13
Ganister. See Sandstone.....	14B-1	Manganiferous iron concentrates.....	10B-9-10
Garnet. See Abrasives, natural, except sand.....	14F-2	Manganiferous iron ores.....	10B-1, 9-10; 10D-1
Gas, natural. See Natural gas		Manganite. See Manganese ores.....	10D-1
Gem stones, natural.....	14F-2	Marble. See Stone, nec.....	14B-1, 31-36
Geophysical exploration services, oil and gas field.....	13D-1, 35-36	Marl. See Limestone.....	14B-1
Gilsonite. See Asphalt, native and bitumens.....	14F-2, 20	Mercury ores and metallic mercury.....	10E-2, 18
Glass sand.....	14C-1, 18-21	Metallic minerals (ores), nec.....	10E-2, 19
Glauber's salt. See Sodium sulfates....	14E-1	Metal mining services, except stripping. See also specific kind....	10E-1, 17, 19 (ftn. 1-3)
Gneiss. See Granite.....	14B-1	Metal mining stripping services. See also Stripping overburden on contract and strip mining for others on contract.....	10E-1, 17, 19 (ftn. 1, 3)
Gold, lode, concentrates.....	10C-1, 28-30	Mica.....	14F-2, 19-20, 21 (ftn. 4)
Gold, lode, mill bullion and precipitates.....	10C-1, 28-30	Mica schist. See Stone, nec.....	14B-1
Gold, lode, ores.....	10C-1, 28-30	Millstones.....	14B-1
Gold, lode, tailings.....	10C-28-30	Mine development services, metal mining establishments.....	10E-1
Gold, placer.....	10C-1, 30	Mine exploration services. See Exploration work on contract	
Grading services, oil and gas field....	13D-1	Mineral pigments. See Chemical and fertilizer mineral mining, nec.....	14E-1
Grahamite. See Asphalt, native, and bitumens.....	14F-2	Mine tunneling services. See Sinking mine shafts and driving mine tunnels on contract	
Granite, crushed and broken.....	14B-1, 33-36	Molding sand.....	14C-1, 18-21
Granite, dimension, rough and dressed...	14B-1, 31-32	Molybdenum ores and concentrates.....	10D-1, 14
Graphite.....	14F-2, 21 and ftn. 10	Monazite concentrates.....	10E-19
Gravel.....	14C-1, 18-21	<b>N</b>	
Greensand, crude and prepared.....	14F-2, 21 and ftn. 10	Natural gas.....	13B-1, 34-43
Greenstone. See Stone, nec, dimension..	14B-1	Natural gas liquids.....	13B-1, 13C-1, 10-11
Grindstones.....	14B-1	Natural gasoline.....	13C-1
Guano. See Chemical and fertilizer mineral mining, nec.....	14E-1	Nickel ores.....	10D-1
Gypsum, crude and prepared.....	14F-2, 19, 21 (ftn. 1-3)	Nonmetallic minerals (except fuels) services, except stripping. See also specific kind.....	14F-1, 19
<b>H</b>		Nonmetallic minerals stripping services. See also Stripping overburden on contract and Strip mining for others on contract.....	14F-1, 19
Huebnerite. See Tungsten ores and concentrates.....	10D-1	<b>O</b>	
<b>I</b>		Oil and gas field services. See also specific kind.....	13B-1, 13D-1, 36-37
Iceland spar.....	14F-2	Olivine. See Clay, ceramic, and refractory minerals, nec.....	14D-1, 19 (ftn. 13, 15)
Ilmenite concentrates. See Titanium ores and concentrates.....	10E-18	Ozokerite. See Asphalt, native, and bitumens.....	14F-2
Installing production equipment, such as well head fittings, pumps, and engines.....	13D-36-37		
Iron agglomerates.....	10B-1, 9-10		
Iron concentrates.....	10B-1, 9-10		
Iron ores.....	10B-1, 9-10		
<b>K</b>			
Kaolin, crude and prepared.....	14D-1, 17, 19 (ftn. 8, 9)		
Kernite. See Sodium borates.....	14E-1		



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Product	Page	Product	Page
<b>P</b>			
Palladium. See Metallic minerals (ores), nec.....	10E-2	Sodium sulfates.....	14E-1, 15
Paper clay. See Kaolin or Ball clay....	14D-1	Stone, crushed and broken. See also specific kind.....	14B-1, 33-36
Peat.....	14F-2, 20, 21 (ftn. 7)	Stone, dimension. See also specific kind.....	14B-1, 31-32
Perforating well casing.....	13D-1, 36-37	Stone, nec, crushed and broken.....	14B-1, 33-36
Perlite, crude and prepared.....	14F-2, 21 and ftn. 9	Stone, nec, dimension.....	14B-1, 31-32
Petroleum, crude. See Crude petroleum		Stoneware clay. See Fire clay.....	14D-1
Phosphate rock.....	14E-1, 15-16 (ftn. 11, 12)		
Pinite. See Clay, ceramic, and refractory minerals, nec.....	14D-1	Strip mining for others on contract:	
Platinum.....	10E-3	For metal mining establishments.....	10E-1, 17
Potash salts.....	14E-1	For anthracite mining establishments..	11B-1, 14
Potash, soda, and borate minerals.....	14E-1, 15, 16 (ftn. 3, 8-10)	For bituminous coal and lignite mining establishments.....	12A-1, 42
Potassium, natural. See Potash, soda, and borate minerals.....	14E-1	For nonmetallic minerals mining establishments.....	14F-1, 19
Psilomelane. See Manganese ores.....	10D-1		
Pulpstones.....	14B-1	Stripping overburden on contract:	
Pumice and pumicite.....	14F-2, 20	For metal mining establishments.....	10E-1, 17
Pumping or draining mines services, for Anthracite mining establishments.....	11B-1	For anthracite mining establishments..	11B-1, 14
Pumping wells, but not operating leases.	13D-36-37	For bituminous coal and lignite mining establishments.....	12A-1, 42
Pyrites.....	14E-1, 16	For nonmetallic minerals mining establishments.....	14F-1, 19
Pyrolusite. See Manganese ores.....	10D-1		
Pyrophyllite, crude and prepared.....	14F-2, 20, 21 (ftn. 5)	Strontium minerals. See Chemical and fertilizer mineral mining, nec.....	14E-1
		Sulfur, elemental.....	14E-1, 16
<b>Q</b>		Sulfur, native.....	14E-1, 16 and ftn. 14
Quartzite. See Sandstone.....	14B-1	Sulfur ore.....	14E-1, 16
		Syenite (except nepheline). See Granite.....	14B-1
<b>R</b>		Syenite, nepheline.....	14B-1
Rare-earth ores. See Metallic minerals (ores), nec.....	10E-2		
Residue gas.....	13C-10-11	<b>T</b>	
Rhodochrosite. See Manganese ores.....	10D-1	Talc, crude and prepared.....	14F-2, 20, 21 (ftn. 5)
Rock salt.....	14E-1, 16 and ftn. 3	Thorite, crude.....	10E-19
Running, cutting, and pulling casing, tubes, and rods.....	13D-1, 36-37	Tin ores. See Metallic minerals (ores), nec.....	10E-2
Rutile concentrates. See Titanium ores and concentrates.....	10E-18	Titanium ores and concentrates.....	10E-2, 18
		Topaz. See Clay, ceramic, and refractory minerals, nec.....	14D-1
<b>S</b>		Trap rock. See Stone, nec.....	14B-1
Sand.....	14C-1, 14F-2	Travertine. See Limestone.....	14B-1
Sand, common.....	14C-1, 18-21	Tripoli. See Abrasives, natural, except sand.....	14F-2
Sandstone. See Stone, nec.....	14B-1	Trona. See Sodium carbonates.....	14E-1
Sandstone, bituminous.....	14B-1, 14F-2, 20	Tungsten ores and concentrates.....	10D-1, 14
Scheelite. See Tungsten ores and concentrates.....	10D-1		
Shooting wells.....	13D-1	<b>U</b>	
Sharpening stones.....	14B-1	Ulexite. See Sodium borates.....	14E-1
Sillimanite. See Clay, ceramic, and refractory minerals, nec.....	14D-1	Uranium-radium-vanadium ores and concentrates.....	10E-2, 18-19
Silver concentrates.....	10C-30-32		
Silver mill bullion.....	10C-1, 30-32	<b>V</b>	
Silver ores.....	10C-1, 30-32	Vermiculite, crude and prepared.....	14F-2, 21 and ftn. 10
Silver, placer.....	10C-30-32	Volcanic ash. See Pumice and pumicite..	14F-2
Silver tailings.....	10C-30-32	Volcanic rocks. See Stone, nec.....	14B-1
Sinking mine shafts and driving mine tunnels on contract:			
For metal mining establishments.....	10E-17	<b>W</b>	
For anthracite mining establishments..	11B-1, 14	Well surveying and well logging.....	13D-1, 36-37
For bituminous coal and lignite mining establishments.....	12A-1, 42	Wolframite. See Tungsten ores and concentrates.....	10D-1
Sinter, iron. See Iron agglomerates....	10B-1	Wurtzillite. See Asphalt, native, and bitumens.....	14F-2
Slate. See Stone, nec.....	14B-1		
Slip clay. See Kaolin or Ball clay....	14D-1	<b>Z</b>	
Soapstone, crude and prepared.....	14B-1, 14F-2, 20, 21 (ftn. 5)	Zinc concentrates.....	10C-24-28
Soda ash. See Sodium carbonates.....	14E-1	Zinc ores.....	10C-1, 24-28
Sodium. See Potash, soda, and borate minerals.....	14E-1	Zinc tailings.....	10C-24-28
Sodium borates.....	14E-1	Zirconium concentrates.....	10E-19
Sodium carbonates.....	14E-1, 15		





## Appendix B.-Minerals Census Report Forms and Punch Cards

In conducting the 1958 Census of Mineral Industries, 27 different establishment forms were used. These represented 20 standard forms for use by large and multiestablishment companies and 7 short forms used for small establishments. In addition, a few special purpose and supplementary forms were used.

The standard forms were essentially similar, with adaptations to specific industries. The principal adaptations were made in Item 5, Man-hours of production and development workers, by department or by kind of work; Item 16, Purchased fuels used; Item 17, Supplies used and minerals for preparation; Item 18, Type of operation and products and services; Item 19, State and county data; Item 20, Number of wells operated (for oil and gas extraction establishments); and Item 21, Number of production and development workers, by month (for industries in which seasonal employment levels were not adequately represented by quarterly figures) or Cost of drilling and equipping wells (for Oil and Gas Extraction Industries). Item 17 provided data on minerals received from other establishments for preparation and on minerals mined and prepared in the same establishment. The State data in Item 19 were used for area classification by State in reports for an entire State or for all operations in the United States, such as oil and gas field and service reports. The county data in Item 19 on employment, quantity production, and receipts for services provided the basis for allocating payrolls, value of shipments and receipts, and certain other data by county.

Of the standard forms used in this Census, Form MC-10B, Copper, Lead, Zinc, Gold, and Silver Ores (see pages B-2 through B-10) is representative of forms for operators of metal ores properties. Form MC-12A, Coal (see pages B-20 through B-27), was used for operators of anthracite, bituminous coal, and lignite mining properties. Form MC-13A, Crude Petroleum and Natural Gas (see pages B-28 through B-35), is representative of the forms for operators of oil and gas extraction properties. Form MC-14A, Stone (see pages B-50 through B-57), is typical of the forms for operators of nonmetallic minerals, except fuels, mining properties. Form MC-13C, Oil and Gas Field Services (see pages B-42 through B-49) is typical of information requested for

mineral services establishments. For establishments engaged both in operation of oil and gas field properties and in oil and gas field services, a consolidated Form MC-13D, Oil and Gas Field Operations, was provided, and for operators of offshore oil and gas properties a supplemental Form MC-13X, Offshore Oil and Gas Operations, was used.

The complete instructions provided for Form MC-10B are shown on pages B-11 through B-15. The same set of instructions was provided for all operators reporting on standard forms for the metal mining industries. These instructions are very similar to those used for coal mining and nonmetallic minerals, except fuels, mining. There were more differences between these instructions and those used for the oil and gas extraction industries; a sample of the latter is shown on pages B-36 through B-41. In all, 7 separate sets of instructions were provided to accompany the standard forms.

Of the 7 short forms provided, one was for metal mining, one for coal mining, 2 for oil and gas extraction, and 3 for nonmetallic minerals mining. About 15,000 of approximately 36,000 reports tabulated in the 1958 minerals census were prepared on short forms. Such forms were used for very small establishments in almost all industries. A copy of a typical short form, MC-10S, Metallic Ores, is shown on pages B-16 through B-19.

Some special purpose forms and supplementary forms were also used. Reference has already been made to the form for reporting offshore oil and gas operations. A form was provided for reporting separately operated central offices or auxiliaries (see also Introduction, Section 11). A special short form was used for a supplementary mailing to oil and gas contractors to obtain the names and addresses of oil and gas producers served. Other special short forms were used to complete the coverage of very small and no-employee establishments for which names and addresses were obtained in Bureau of Mines and other lists.

Typical punch cards used in tabulating the 1958 Census of Mineral Industries data are shown on page B-58.

**ORIGINAL** Return this copy to  
Bureau of the Census

Form **MC-10B**  
U. S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

# 1958 CENSUS OF MINERAL INDUSTRIES

## COPPER, LEAD, ZINC, GOLD, AND SILVER ORES

CENSUS USE ONLY		Location		F/O
0				
0-1	0-2			

**PLEASE READ ENCLOSED INSTRUCTIONS BEFORE COMPLETING REPORT.**

Please complete and return this form in the return envelope to the Bureau of the Census, Jeffersonville, Indiana, **not later than 30 days** after you receive it. A separate report is required from the operator for each mine or separately operated mill or washing plant.

**ITEM 1A**  
NAME OF ESTABLISHMENT

(In answering Item 1B, parts (1) through (5) below, be sure your answers relate to the ACTUAL PHYSICAL LOCATION of your establishment, which may be different from its mailing address.)

**ITEM 1B**  
LOCATION OF ESTABLISHMENT

1. STATE \_\_\_\_\_ 2. COUNTY \_\_\_\_\_

3. Is this establishment within the legal boundary of a municipality? Yes ☐ No ☐  
If "Yes," (a) Enter name of the municipality. (Enter name only if establishment is within legal boundary)

(b) Type of municipality. (Check applicable box)  
☐ City ☐ Village ☐ Borough  
☐ Other (Specify) \_\_\_\_\_

4. STREET AND NUMBER AT ESTABLISHMENT LOCATION (If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e. g., Rt. 25, 3 miles South of Charlottesville.)

5. Is this establishment within a town or township? Yes ☐ No ☐  
If "YES," ENTER NAME OF TOWN OR TOWNSHIP \_\_\_\_\_

For establishments in New England, New Jersey, and Pennsylvania

**CONFIDENTIAL.**—This report is required by Act of Congress, approved August 31, 1954 (13 U.S.C. 131 and 224). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation, or regulation.

In correspondence pertaining to this report please refer to this file number \_\_\_\_\_

MC-10B (1002)

(Please correct any errors in name and address)

**ITEM 2A**  
FEDERAL SOCIAL SECURITY EMPLOYER IDENTIFICATION NUMBER

Federal Social Security Employer Identification Number of this establishment (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)

(Enter all 9 digits)

**ITEM 2B**  
COMPANY ORGANIZATION OF OPERATING COMPANY

(a) Does this company operate more than one place of business under the same Employer Identification Number (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)? Yes ☐ No ☐

(b) Does this company own or control another company? Yes ☐ No ☐

(c) Is this company owned or controlled by another company? If "Yes," is checked in Part (c), give name and address of owning or controlling company.

**ITEM 2C**  
FORM OF OWNERSHIP OF OPERATING COMPANY

(Check one)

(1) ☐ Individual proprietor  
(2) ☐ Partnership  
(3) ☐ Corporation (Do not include any form of coop. ass'n)  
(4) ☐ Cooperative association (corporate or noncorporate)  
(5) ☐ Other (Specify) \_\_\_\_\_



## DEFINITIONS FOR ITEMS 3, 4, AND 5

**Production and Development Workers.**—Workers (up through the working foreman level) engaged in manual work, using tools, operating machines, hauling materials, loading and hauling products out of mine; caring for mines, plants, or shops; exploration work, mine development, storage, shipping, maintenance, repair, watchman services, auxiliary production for own use (e. g., power plant), record keeping, and other services closely associated with these production and development operations. **Exclude** supervisory employees above working foreman level. **Include** workers paid on a tonnage basis. **Exclude** employees of contractors.

**All Other Employees.**—Nonproduction personnel at this establishment engaged in supervision

above working foreman level, sales, highway trucking (by employees not entering mines), advertising, credit, collection, clerical and routine office functions, executive, purchasing, finance; and in legal, personnel (including cafeteria, medical, etc.), professional (engineers, geologists, etc.), and technical work. **Include** force-account construction employees on your payroll engaged in construction of major additions or alterations to the plant who are utilized as a separate work force. Workers engaged in regular maintenance and repair operations should be included with production and development workers. **Include** officers at this establishment, if a corporation, but **exclude** proprietor or partners, if unincorporated. **Exclude** employees of contractors.

ITEM 3 PAYROLLS IN 1958 (\$000)	Enter the total of wages, salaries, bonuses, commissions, and other remunerations in the entire year, before deductions, paid to—	1958		KEY
		Thousands of dollars		
ITEM 4 NUMBER OF EMPLOYEES IN 1958	a. Production and development workers	\$		0-5
	b. All other employees	\$		0-6
	c. Total payrolls (Sum of a and b)	\$		0-7
			Number of employees	
ITEM 5A MAN-HOURS OF PRODUCTION AND DEVELOPMENT WORKERS, BY DEPARTMENT, IN 1958 (Thousands)	a. March 1958			0-8
	b. May 1958			0-9
	c. August 1958			0-10
	d. November 1958			1
	e. Sum of lines a, b, c, and d			1-1
	f. Average number (Divide sum on line e by 4)			1-2
	g. March 1958			1-3
	h. Total (Sum of f and g)			1-4
				1-5★
			Thousands of hours	
ITEM 5B PROPRIETORS AND FIRM MEMBERS IN 1958	a. At mine	8	8-1	555
	(1) Underground (mining and development)			8-2
	(2) Open-pit (mining and stripping)			8-3
	(3) Surface (including mine shops and yards)			8-4
b. At mill or washing plant (including auxiliary works for this mill)				8-5
c. Total production and development worker man-hours (Sum of a and b)				8-6
d. Man-hours included above which were spent on development and exploration work <sup>1</sup>				8-7
			Number of persons	
a. Total number of proprietors and firm members (not applicable to corporations)				8-8
b. Number of proprietors and firm members (included in a above) regularly performing production or development work at this establishment				8-9★

<sup>1</sup> Report total man-hours in 1958 devoted to development and exploration work charged to capital, depletion, or Defense Minerals Exploration Administration accounts. Include shaft sinking, exploration drilling, and overburden stripping charged to such accounts. The cost of such work should usually be included in Item 8a.

(OVER)

ITEM 6 COST OF SUPPLIES, MINERALS RE- CEIVED FOR MILLING, PRODUCTS FOR RESALE, FUELS, ELECTRIC ENERGY, CON- TRACT WORK, AND MACHINERY IN 1958 (\$000)	ITEM 7 (Not applicable to this form)	ITEM 8 CAPITAL EXPENDITURES FOR THIS ESTABLISH- MENT IN 1958 (Exclude expenditures for land and mineral rights) (\$000)	ITEM 9 QUANTITY OF ELECTRIC ENERGY USED IN 1958 (Thousands of kilowatt hours)	ITEMS 10, 11 (Not applicable to this form)	ITEM 12 STATUS OF OWNERSHIP OR OPERATION OF ESTABLISH- MENT SINCE DECEMBER 31, 1957
<p>Include all such items charged to <b>both current and capital ac-</b> <b>counts.</b> (Costs charged to capital accounts should also be included in Item 8.) Report the cost of all items actually used or processed in 1958, whether purchased, withdrawn from inventories, or received from other establishments of this company. If your records do not show actual amounts used or processed, this may be computed by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Purchase records instead of con- sumption records may be used for any major item, if purchases closely approximate consumption, and for all minor items.</p> <p>"Cost" refers to amounts actually paid or payable after discounts, and includes freight and other direct charges incurred in acquiring the items. For items transferred from other establishments of this company, report the approximate commercial value as received. For minerals received for milling on a custom or toll basis, estimate the value of such minerals as received. Contract work should repre- sent amounts paid or due contracting concerns for work done during 1958 in the operation or development of this establishment, such as pumping, tunneling, shaft sinking, stripping, boring test holes, shop work, repair work, and construction.</p>	<p>Expenditures refer to all costs actually incurred during 1958, whether on contract or by your own forces which are chargeable to the fixed assets accounts of this estab- lishment and which are of the type for which depreciation, depletion, or Defense Minerals Exploration Administration accounts are ordinarily maintained. Do not include the cost of maintenance and repairs charged as current oper- ating expense.</p> <p>If, during 1958, you did not make any expenditure for this establishment of the kind described above, enter "None" on line "e."</p>	<p><b>Include on line a</b>, all electric energy purchased for light, heat, and power. Do not include electric energy pur- chased for resale.</p> <p><b>Include on line b</b>, all electric energy generated at this estab- lishment whether for use by this establishment or for sale.</p> <p><b>Include on line c</b>, sales or transfers of electric energy generated at this establishment.</p>	<p>(1)* <input type="checkbox"/> Purchased or leased by you on _____ (date)</p> <p>(2)* <input type="checkbox"/> Sold or leased to another operator on _____ (date)</p> <p>(3)* <input type="checkbox"/> Reorganized (partnership change or change in corporate status)</p>	<p>a. Change in ownership or operation of this establishment since December 31, 1957 (Check one):</p> <p>(1)* <input type="checkbox"/> Purchased or leased by you on _____ (date)</p> <p>(2)* <input type="checkbox"/> Sold or leased to another operator on _____ (date)</p> <p>(3)* <input type="checkbox"/> Reorganized (partnership change or change in corporate status)</p>	<p>ITEM 12 STATUS OF OWNERSHIP OR OPERATION OF ESTABLISH- MENT SINCE DECEMBER 31, 1957</p>



(4) <input type="checkbox"/> Went out of business (no new owner) on _____ (date) (5) <input type="checkbox"/> No change	*Make certain that you have entered in Item 2A the current (or most recent) Federal Social Security Employer Identification Number of this establishment.	<input type="checkbox"/> Development and exploration work only <input type="checkbox"/> Idle <input type="checkbox"/> Abandoned <input type="checkbox"/> Exhausted	<p><b>b. Status of establishment if no minerals were produced during 1958 (Check one):</b></p> <p><b>Please Note—</b></p> <p>1. The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios.</p> <p>2. Incomplete answers will result in correspondence which is both costly and time consuming. Be sure to <b>complete every item</b>. Enter "None" in all items where appropriate.</p> <p>3. Reasonably accurate estimates are acceptable. The statistical purposes of the Census will not be affected by such estimates. Preparing estimates at the time the report is completed will avoid the necessity for further correspondence on blank items.</p> <p>4. All money figures should be reported in thousands of dollars. For example, if the complete dollar figure to be reported is \$1,367,700 enter \$1,368. All quantity figures should be reported in the unit specified in the item.</p> <p>5. Failure to file reports within the requested period results in costly delays and follow-up letters. Please submit your reports as quickly as possible.</p> <p>6. It is very difficult and costly to process your correspondence if you do not show your file number (see address box) on all correspondence concerning your Census reports.</p> <p>7. The following inquiry is provided to call your attention to possible oversights and errors in the data entered on your form. To save you future correspondence about these problems, please make the checks indicated below before returning your report:</p> <p>a. Review the report carefully to see that no items are omitted.</p> <p>b. Calculate the four "reasonableness" checks described below, enter the figures for each, and analyze your results.</p> <p>c. Correct your report for any errors you find; explain unusual figures in the "Remarks" section below.</p>
<b>ITEM 13</b> CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT			
		Calculation required for each check	<b>1958</b>
"Reasonableness" checks			
1. Average hourly wages per worker	Item 3a (Production worker wages) ÷ Item 5Ac (Total man-hours)	\$	
2. Hours worked per year per worker	Item 5Ac (Total man-hours) × 1,000 ÷ Item 4f (Average production workers)		
3. Salaries and wages per dollar of shipments	Item 3c (Total payrolls) ÷ Item 18, Total, Col. (E) (Value of shipments)		¢
4. Supplies, etc., cost per dollar of shipments	Item 6f (Supplies, etc., cost) ÷ Item 18, Total, Col. (E) (Value of shipments)		¢
REMARKS			
<b>ITEM 14</b> <b>ITEM 15</b>	(Not applicable to this form)		

(Please continue on next page.)

Form MC-10B		CENSUS USE ONLY		ESTABLISHMENT IDENTIFICATION NO	
1958 CENSUS OF MINERAL INDUSTRIES		NAME OF ESTABLISHMENT (Same as address box)			
COPPER, LEAD, ZINC, GOLD, AND SILVER ORES—Continued					
ITEM 16 FUELS USED IN 1958		Report quantities in units specified; report total delivered cost in thousands of dollars. Do not report cost per unit.			
Line No.	Item A	5 Code	5-1 Unit of measure B	5-2 Quantity C	5-3 Cost (Thousands of dollars) D
1	Coal: bituminous, lignite, and anthracite	10	Short tons		\$
2	Fuel oil, all types	30	Bbls. (42 gals.)		\$
3	Gas: natural, manufactured, and mixed	40	Thousand cu. ft.		\$
4	Other fuels: gasoline, liquefied petroleum gas, coke, and other	50			\$
5	Total (Sum of lines 1 through 4; should be same as Item 6c)				\$
ITEM 17 SUPPLIES USED AND MINERALS FOR MILLING IN 1958		<p><b>REPORT ALL COST FIGURES IN THOUSANDS OF DOLLARS</b></p> <p><b>General.</b>—This inquiry calls for a breakdown of the supplies used and minerals received for milling at this establishment during 1958 reported in Item 6a of this form. The total cost in Item 17 should agree with Item 6a.</p> <p><b>Cols. D and E—Consumption of Items Received From Other Establishments.</b>—Report the quantity (Col. D) and delivered cost (Col. E) for each of the purchased items actually consumed or put into production during the year, whether received from other companies, withdrawn from inventory, or received from other establishments of this company.</p> <p><b>Col. D—Quantity.</b>—Report the quantities actually used in terms of the unit of measure specified in Col. C. If you do not have actual consumption records, but if purchases closely approximate consumption, your purchase figures may be used in reporting the item. However, if, for one of the items separately listed, consumption differs significantly from purchases, please derive consumption figures by adding beginning inventory to purchases during the year and then subtracting closing inventory.</p> <p><b>Col. E—Delivered Cost.</b>—Report amounts actually paid or payable after discounts, and include freight and direct charges incurred in acquiring the quantities of the listed items consumed during 1958. For items transferred from other establishments of this company, please estimate the commercial value of the item.</p> <p><b>Col. F—Minerals from this Mine.</b>—Do not include in this column crude ore and old tailings received from other establishments of your company. Such ores and tailings should be included in Columns D and E.</p>			



## APPENDIX B.-MINERALS CENSUS REPORT FORMS AND PUNCH CARDS

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6		6-1	6-2		6-3		6-4
Item		Census material code	Unit of measure	Received from other establishments, purchased from others, and ores received for milling on a custom or toll basis		Minerals from this mine or mill (Quantity)	
A		B	C	Quantity	Delivered cost (Thousands of dollars)	F	
a. Minerals for milling	Crude ore and old tailings milled (Estimate value of ores received for custom milling)	1	100091	1	Short tons	\$	
b. Supplies used	Explosive materials (exclude blasting accessories)	2	282611	0	Pounds	\$	
	Steel mill shapes and forms (such as plates, sheets, strip, piling, roof bolts, drill steel bars, other bars, rails, wheels, track accessories, pipe, tubing, wire, wire products, and structural shapes)	3	331210	0	Short tons	\$	
	All other supplies (such as blasting accessories, timber and lumber received from other establishments, forgings and castings, drill bits, other tools or parts, quicksilver, lubricants, water purchased, and mill reagents and other chemicals)	4	970097	8		\$	
c. Total—(Sum of lines 1-4; should be the same as Item 6a)		5				\$	
ITEM 18 TYPE OF OPERATION AND PRODUCTS AND SERVICES OF THIS ESTABLISHMENT IN 1958		Type of mine (check one or more)	Open-pit or surface placer deposit				
		Underground					
		If underground, indicate the dominant underground mining method:					
		Underground mining methods (check only one)	Open-stoping (including room-and-pillar and sublevel stoping) <input type="checkbox"/> 1				
			Shrinkage stoping <input type="checkbox"/> 1				
			Square setting <input type="checkbox"/> 1				
			Cut-and-fill stoping <input type="checkbox"/> 1				
			Block caving <input type="checkbox"/> 1				
			Sublevel caving, top slicing, and other (specify) <input type="checkbox"/> 1				
		Milling methods (check dominant method only)	No preparation <input type="checkbox"/>				
			Flotation <input type="checkbox"/> 1				
			Cyanidation, straight gravity, amalgamation, sink and float, and other (specify) <input type="checkbox"/> 1				

(OVER)

**ITEM 18—**  
**Continued**

Report weights in the unit of measure specified. Report total values f. o. b. this mine or mill. Include in the selling value royalty, if any, but exclude transportation charges to the purchaser or user. In the columns "Quantities of metals contained" report the metal content of production where both production and shipments are shown.

The Bureau of Mines (U. S. Department of the Interior) collects detailed figures on the mineral products listed below. This item provides only summary figures which will serve to relate the statistics compiled from the Census of Mineral Industries to the statistics compiled from Bureau of Mines surveys. For comparable items the same data should be reported both to the Bureau of the Census and the Bureau of Mines.

7	Product	Line No.	7-1 Census product code	Unit of measure (dry weight)	7-2 Production (Quantity)	7-3 Shipments and interplant transfers		7-4 Value f. o. b. mine or mill (thousands of dollars) E	Quantities of metals contained based on assay content							
						Quantity D			Copper (pounds)	Lead (pounds)	Zinc (pounds)	Gold (fine ounces)	Silver (fine ounces)			
<b>A</b>																
	Copper, lead, zinc, lode gold, and lode silver bearing ores (Report placer gold and placer silver on lines 12 and 13)															
	Crude ore mined:															
	From underground operations	1	1 03	Short tons												
	From open-pit operations	2	1 05	Short tons												
	Disposition of crude ore and old tailings not milled at this establishment (Report material milled at this establishment in Item 17):															
	Shipped to smelters	3	1 21	Short tons				\$								
	Sold or transferred to other mills for treatment, including shipments for treatment on a custom or toll basis (In column (E) report estimated mine value before shipment to mill)	4	1 23	Short tons				\$								
	Concentrates (produced from materials reported in Item 17):															
	Copper	5	10212 01	Short tons				\$								
	Lead	6	10322 01	Short tons				\$								
	Zinc	7	10332 01	Short tons				\$								
	Other (Specify kind and unit of measure)	8						\$								



## APPENDIX B.—MINERALS CENSUS REPORT FORMS AND PUNCH CARDS

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Mill bullion and precipitates recovered by:										8		8-2							
										8-1		Amount received or due (Thousands of dollars)							
										Code									
										911		\$							
Amalgamation . . . . .										9	3 03								
Cyanidation . . . . .										10	3 05								
Copper-water precipitates (including pre- cipitates from ore leached in place)										11	10213 01	2	Short tons-						
Placer metals:																			
Placer gold . . . . .										12	10433 07	8	Fine ounces						
Placer silver . . . . .										13	10443 07	9	Fine ounces						
All other products Ores (Specify type)																			
Concentrates:																			
Molybdenum . . . . .										14			Short tons						
										15	10682 03	4	Short tons						
Pyrite . . . . .										16	14792 01	6	Long tons						
Other (Specify kind and unit of meas- ure)										17									
										18									
Other products (Specify kind and unit of measure)										19									
Sales of products purchased and resold with- out further processing										20	99989 00	8							
Amount received or due for work or services performed for other establishments (such as hauling, stripping, short sink- ing, pumping, and shop work—exclude amounts received for milling ore on a custom or toll basis)										21	10808 01	4							
Total (Sum of lines 3-21)										22	77000 00	8							
Quantity of material handled in placer operations:																			
Stripped . . . . .										23	10431 01	4	Cubic yards						
Washed . . . . .										24	10431 03	0	Cubic yards						
c. Receipts for custom or toll work																			
Amount received or due for milling crude ores or old tailings on a custom or toll basis																			

Please complete form and sign certification on next page)

Page 5



INST.  
MC-10A

## Department of Commerce

### Bureau of the Census

#### 1958 CENSUS OF MINERAL INDUSTRIES

### General Instructions for Preparing Reports on Forms MC-10A, MC-10B, MC-10E, MC-10G, and MC-10J

#### Metal Mining

The purpose of this pamphlet is to assist you in filling out the enclosed Census of Mineral Industries forms. Please read the instructions for each item in this pamphlet and on the report form before entering your figures. Note that all value figures are to be reported in thousands of dollars, all man-hours figures are to be reported in thousands of hours, and all quantity figures for electric energy are to be reported in thousands of kilowatt-hours.

#### INTRODUCTION

##### A. WHO SHOULD REPORT?

Every concern which operated one or more mineral establishments during any part of 1958, in the United States (including Alaska), Hawaii, Puerto Rico, Guam, and the Virgin Islands is required to submit a separate Census report for each such establishment, including mines under development and beneficiating, milling, or treatment plants under construction. The report should be returned to the Census Office shown on the enclosed envelope within 30 days of its receipt.

Each report should be prepared by the operator of the establishment, whether he is its owner or is operating it under lease or contract.

##### B. WHAT IS A MINERAL ESTABLISHMENT?

A mineral establishment is generally defined as a single physical location where mineral operations are conducted; for example, a mine only (a mine may be a lode operation, a pit, a beach, or a placer deposit), a mine and beneficiating or treatment plant (such plants include a mill, washing, agglomeration, or other types of mineral treatment or preparation facilities) or a beneficiating or treatment plant only. Where a single physical location comprises two or more units which are engaged in distinct or separate activities, and for which separate records are available or for which substantially accurate reports can be prepared, each such unit should be treated as a separate establishment. In the preparation of such reports a limited amount of prorating or estimating of man-hours, costs, etc. may be necessary.

An establishment is not necessarily identical with the business concern or firm, which may consist of one or more establishments. It is also to be distinguished from organizational departments, or other subdivisions within an establishment.

Thus, for Census purposes, a mineral establishment represents a working or group of workings at a given locality in which operations are conducted as a unit or are unified by common management or joint handling of some part of the mining or preparation process. Individual shafts, openings, or sites should not necessarily be considered as individual mines; open-pit mines, however, should be reported separately from underground mines wherever possible. Plants engaged solely in beneficiating, milling, or treating minerals mined at other locations should be reported separately.

If you have not received a sufficient number of forms to cover all mineral establishments operated by your concern during 1958, please write to the Bureau of the Census Operations Office, Jeffersonville, Indiana, stating the number of establishments for which you did not receive forms and their type of activity. In corresponding for this, or any other reason, be sure to include in your letter the Census reference number which appears in the address box of the form sent you.

##### C. WHAT KIND OF ACTIVITIES SHOULD THE ESTABLISHMENT REPORTS COVER?

Each report should cover the operations of a mine—underground, open-pit, or placer working—together with its associated shops, auxiliary units, yards, mill, beneficiating, treatment, or washing plant; and offices; or it should cover a mill, or beneficiating or treatment plant not at the site of the mines served, or operated under separate management from the mines, together with its associated shops, auxiliary units, and offices. The report should also include such activities as generating energy for the mine or plant (a central power plant serving two or more mineral establishments should be included in the report for that establishment to which the power plant

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT HOURS IN THOUSANDS



## B-12 APPENDIX B.—MINERALS CENSUS REPORT FORMS AND PUNCH CARDS

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furnishes the greatest quantity of electric energy); maintenance of mine, plant, and equipment; and receiving, shipping, storage, research, record keeping, health, safety, cafeteria, and other services, when carried on at the same physical location by the mineral establishment. The report should exclude the operation of company stores, boarding houses, bunk houses, and recreational facilities. The report should also exclude sales branches, research laboratories, and general administrative offices, if they were operated as separate establishments. Such operations should be reported, where applicable, on separate Census forms available for such establishments.

Sintering plants operated in conjunction with blast furnaces should be included in your report on a Census of Manufactures form covering blast furnaces. With the exception of mercury, the report should not include the recovery of metals through smelting or refining. Smelting or refining activities should be reported on applicable Census of Manufactures forms.

### D. WHAT PERIOD SHOULD EACH REPORT COVER?

Each report should cover the calendar year 1958. If your book records are not on a calendar-year basis, carefully prepared estimates for this period will be accepted. If, however, this procedure will cause you considerable difficulty in reporting, and the ending date of your fiscal year is not more than two months from December 31, 1958 you may report on a fiscal basis. As in the 1954 Census, however, all employment, payroll, and man-hour figures should relate to the calendar year rather than to the fiscal year.

The dates given in the certification should show the exact period for which this report is made. Thus, if

an establishment began to operate or ceased to operate within the year 1958, the dates given should show that only part of a year is covered by the report. Where an establishment was operated during part of the year under other management, complete the report only for that part of the year 1958 in which you operated the establishment.

### E. HOW SHOULD MULTIPLE-ESTABLISHMENT COMPANIES DETERMINE TRANSFER VALUES FOR INDIVIDUAL PRODUCTS AND MATERIALS?

In order to provide adequate information for individual industries, States, and local areas, it is necessary that each reporting unit of a multiple-unit organization report as though it were operated as an independent establishment. For example, where a single company operates a mine and a blast furnace, the transfers of minerals from the mine to the blast furnace should be reported at approximately commercial values and not at the cost of production. This requires that the company assign to each operation, and to the individual products, a reasonable proportion of the profits and the overhead costs. It is recognized that it will sometimes be necessary to make estimates.

Products reported at "transfer values" by the mine should be reported by the receiving establishment as materials used (or inventories of materials, etc.) at the same values, except for the addition of transportation or other direct handling charges.

These instructions apply to all establishments for which separate establishment reports are being submitted, including those at the same location, as well as to establishments at different locations.

## ITEMS ON THE REPORT FORM

Items 1 and 2.--See instructions on report form.

Item 3.--Payrolls in 1958.--Report the gross earnings paid in the calendar year 1958 to employees on the payroll of this establishment, including commissions, dismissal pay, all bonuses, vacation and sick-leave pay, and compensation in kind, such as board or housing, and prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. (You should follow the definition of salaries and wages that is used for calculating the withholding tax.) Include salaries of officers at this establishment, if a corporation. Exclude payments to proprietor or partners, if an unincorporated concern, and payments to members of armed forces and pensioners carried on your active payroll. Exclude royalty payments to unions. Exclude here, but include in Item 6a, the cost of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production and development work but charged to employees and deducted from their wages.

Item 4.--Number of Employees in 1958.--Report all

full-time and part-time employees at this establishment who worked or received pay for any part of the pay period (preferably one week) ended nearest the 15th of the months specified on the report form (March, May, August, and November for "production and development workers" and March only for "all other employees"). Include all persons on paid sick leave, paid holidays and paid vacations during these pay periods, and officers, if a corporation. Include persons at a general office serving two or more mines if it is located at or near this establishment. Include employees of miners paid on a per ton, car, or yard basis. However, exclude employees who worked at the mine but were on the payroll of another employer (such as employees of contractors). Exclude members of the armed forces and pensioners carried on your active rolls. Exclude proprietor partners, if an unincorporated concern; they should be reported in Item 5B. Exclude workers at blast furnaces and other manufacturing plants, company stores, boarding houses, bunk houses, recreational centers, etc. (You may follow the definition of employees specified by your State Employment Security Agency.)

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT HOURS IN THOUSANDS



Items 4e and 4f.--Add the four production and development workers employment figures on lines 4a-4d and enter total on line 4e. Divide the total entered on line 4e by four and enter the result on line 4f. In cases where the establishment did not operate in all four periods, the sum shown on 4e should still be divided by four.

Item 5A.--Man-hours of Production and Development Workers, by Department, in 1958.--The man-hour figures are designed to measure over-all activity of the establishment during the year on both active and inactive days. The figures should represent all time worked or paid for, except time for paid vacations, holidays, or sick leave, when the employee was not at the establishment. Include actual overtime hours, not straight-time equivalent hours. If an employee elected to work during the vacation period, report only actual hours worked by such employee.

The figures should account for all man-hours worked at this establishment for the entire year by all full-time and part-time production and development workers reported in Item 4. Exclude hours worked by employees of contractors or by proprietors, partners, or firm members.

A man-hour is the work of one person for one hour. Report figures from actual records of man-hours wherever available. If no records of man-hours were kept, estimate man-hours from payroll or other records.

Item 5Aa, b.--Man-hours at Mine and at Mill or Washing Plant.--On the separate line provided for "Underground," include man-hours worked at underground shops. Under "Surface," include man-hours worked at all mine shops that are not located underground. Under "Open-pit" include man-hours expended in recovering old tailings from dumps. (See also instructions for Items 6 and 17 on report form.)

For placer operations, report man-hours on hydraulicking and panning as "open-pit" (5Aa(2)) and man-hours at sluice boxes and other types of washing plant as "mill or washing plant" (5Ab). If you used floating equipment or engaged in dredging operations and washing was performed aboard such equipment, allocate manhours between "open-pit" and "mill or washing plant" if some man-hours were not devoted directly to washing processes.

Item 6.--Cost of Supplies, Minerals Received, Products for Resale, Fuels, Electric Energy, Contract Work, and Machinery in 1958.--Report total amounts for supplies, minerals for milling or beneficiation, and fuels actually used or processed during 1958 by the establishment.

Include items consumed by the establishment during the year although purchased prior to 1958; physical goods; minerals received from other mines for beneficiation or milling (these should also be reported in Item 17), purchased supplies consumed for production, development, maintenance, and repair of mine, plant, and equipment, and in plant construction; supplies which you furnished without charge to con-

tractors or sold to employees for use at this establishment; consumption of items received from other establishments of your company for which separate reports are being submitted.

Exclude items received during the year which were not consumed; services such as advertising, telephone, telegraph, cable, insurance, and research rendered by other establishments to this establishment, or services of engineering, management, marketing, legal, and other professional consultants, etc.; expenses such as depreciation and depletion charges against plant and equipment, rent and rental allowances, interest payments, royalties, and use of patent fees; supplies (such as timber or lumber), parts, or machinery produced at this establishment; extraordinary losses such as by fire and flood; and wages of your employees engaged in maintenance and repair work, (these should be reported in Item 3).

The costs reported for supplies, minerals for milling or beneficiation, fuels, electric energy, and machinery received from other establishments of your company or from a central supplies depot (whether at the same or different physical locations) should approximate the commercial values of these items, plus transportation and other direct handling charges. Wherever possible, these figures should be checked with the values reported by the operation producing and transferring the goods and should exceed the shipment values reported for the producing establishment only by the addition of transportation or other direct handling charges involved.

Item 6a.--Supplies Used.--The following list of examples of supplies will indicate the types of items which should be included. The list is shown only as an example. It should not be considered a complete list of the items which should be included.

Bearings	Hardware
Bolts, screws, and nuts	Headlights and lamps
Brake blocks and linings	Industrial diamonds
Carbon and graphite brushes	Lubricating oils
Cement	Lumber
Chemical reagents	Pipe and fittings
Dies, jigs, and fixtures	Piling
Drill bits and accessories	Plates and sheets
Explosives	Rail and accessories
First aid and safety supplies	Rods and bars
Floor gratings	Roof bolts
Forgings and castings	Stationery, stamps, and office supplies
Fuses	Track accessories
Gears and pinions	Water purchased
Hand tools	Welding rods, electrodes, and acetylene
	Wire, cable, and chain

Item 6b.--Products Bought and Resold Without Further Processing.--Report the cost of all products bought and resold in the same condition as when purchased. The resale value of such products should be reported in Item 18b.

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT HOURS IN THOUSANDS



**Item 6c.—Fuels Used.**—Report the total amount actually paid or payable during 1958 for all fuels used for heat, power, or generating electricity. Fuels consumed at this establishment, but produced in another establishment of your company, should be reported as fuel in item 6c, and commercial values assigned to them. Include anthracite, bituminous coal, coke, natural and manufactured gas, fuel oil, gasoline, liquefied petroleum gas, wood, and all other fuels, and purchased steam.

**Item 6d.—Purchased Electric Energy.**—Report the total amount actually paid or payable for electric energy purchased during 1958 from other companies, or received from other establishments of your company, except energy purchased for resale. Exclude the value of electricity generated at this establishment.

**Item 6e.—Contract Work Done for You by Others.**—Report the total amount paid for contract services, including payments for supplies and equipment furnished by the contractor incidental to this work.

Exclude payments to miners paid on a per ton, car, yard, or footage basis. The compensation of such workers should be included in Item 3.

If part of the payment to a contractor was in material produced, an estimate of the value of the service should be reported.

**Item 6g.—Purchased Machinery.**—Include all machinery, equipment, parts for renewals and repairs, and used plant which were purchased, or which were received from other establishments of your company. Include equipment which was installed in the mine, mill, beneficiating, or washing plant as well as mobile loading and transportation equipment.

**Item 7.**—Not applicable to minerals establishments.

**Item 8.—Capital Expenditures for this Establishment in 1958.**—(See instructions on report form.) If work was begun prior to 1958 or not completed by the end of 1958, expenditures during 1958 may be computed as follows: cost of development work, exploration work, and additions completed during the year plus cost of work-in-progress at the end of the year minus cost of work-in-progress at the beginning of the year. Estimate if necessary. Labor and installation costs should be included.

**Item 8a.—Development and Exploration of Mineral Property.**—Report development and exploration outlays which were charged to a capital or Defense Minerals Exploration Administration account. These should include charges to fixed assets for which depreciation or depletion accounts are ordinarily maintained for tax purposes. Include capitalized expenditures for new entries and shafts, construction of rail and other roads, test boring, surveying, and the like.

**Item 8b.—Mill, Beneficiation or Treatment Plant and Other Construction.**—Include expenditures for new construction, major additions, and alterations (including improvements and capitalized repairs). Include machinery which is an integral part of a build-

ing, such as a crane or a kiln. Include, where capitalized, expenditures for construction by your own employees. Exclude construction of company houses, general recreation facilities, and rail and other roads.

**Item 8c.—New Machinery and New Equipment.**—Report total expenditures at this establishment for all new machinery and equipment. Include new machinery and equipment purchased for replacement purposes, as well as for additions to capacity and the value of new machinery and equipment transferred from other establishments of this company. Include the value of improvements and capitalized repairs to machinery and equipment. Include all new mining, loading, transportation, and similar equipment for use at mines; mill or plant equipment which is not an integral part of a building; as well as new office machines and fixtures, furniture, cafeteria and change-room furnishings, automobiles, trucks, and similar equipment.

**Item 8d.—Used Plant and Used Equipment Acquired From Others.**—Report total expenditures at this establishment for old or existing plant and for second-hand equipment acquired from others (including the United States Government).

**Item 9.—Quantity of Electric Energy Used in 1958.**—Report all quantities of electric energy in thousands of kilowatt hours.

**Item 9a.—Purchased Electric Energy.**—Enter the quantity of electric energy for which the cost was reported in Item 6d.

**Item 9b.—Generated Electric Energy.**—Enter the total quantity of electric energy generated at this establishment, during 1958, including energy which was sold to other companies or transferred to other establishments of your company.

Electric energy for "generating-station use," which should be excluded in 9b, is electric energy used for generating-station lighting, exciters, condenser pumps, boiler feed pumps, stokers, and other station auxiliaries.

**Item 9c.—Electric Energy Sold or Transferred to Other Establishments.**—Include only that electric energy which was generated at this establishment and then sold to other companies or transferred to other establishments of your company.

**Items 10 and 11.**—Not applicable to minerals establishments.

**Items 12 and 13.**—See instructions on report form.

**Items 14 and 15.**—Not applicable to minerals establishments.

**Item 16.—Fuels Used in 1958.**—(This item is included on selected report forms.) Report all fuels purchased from other companies or transferred from other establishments of your company. Do not include fuels that were produced at and used at this establishment for power or heat. Report fuel used as raw material in Item 17.

If your gas is billed in therms, convert as follows:

a. For natural gas: 1,000 therms equal 1 cubic foot.

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT HOURS IN THOUSANDS



b. For manufactured gas: 600 therms equal 1 cubic foot.

Item 17a.--Minerals for Milling or Preparation.--For placer operations, no entry in Item 17a should be made for material washed or treated. The amount of gravel stripped and washed should be reported in Item 18b, lines 23 and 24.

Item 17b, Line 2.--Explosive Materials.--Include only explosive material, such as powder. Exclude detonating equipment. The value of detonating equipment used should be included in Item 17b, line 4, "All other supplies."

Item 17b, Line 3.--Steel Mill Shapes and Forms.--Include steel mill shapes and forms, such as plates, sheets, strip, piling, roof bolts, drill steel bars, other bars, rails, wheels, track accessories, pipe, tubing, wire, wire products, and structural shapes.

If records for the tonnage of steel mill shapes and forms used are not available, an estimate is acceptable. For example, this figure may be estimated on the basis of the approximate tonnage of steel used per ton of ore produced.

Item 17b, Line 4.--All Other Supplies.--Include all other supplies used, such as timber and lumber purchased or received from other establishments, forgings and castings, drill bits, other tools or parts, quicksilver, lubricants, water purchased, mill reagents, and other chemicals.

Item 18b.--Products and Services.--(See instructions on report form.) Report concentrates and ag-

glomerates produced on a custom or toll basis in the columns on production and shipments, (Columns C-E) entering the shipment value of such concentrates or agglomerates, if known, or estimating the commercial value if necessary. Include as shipments material produced at this establishment and transferred for use by your company at other establishments, estimating its approximate commercial value if necessary. Do not include as shipments any crude ore or materials mined at this establishment and also milled or otherwise prepared at this establishment.

Bonuses and other credits for metals contained should be included in the value of shipments and inter-plant transfers. Penalties for impurities, such as arsenic, should be excluded from the value of shipments.

Items 19 and 20.--Not applicable to these industries.

Item 21.--See instructions on report form. (This item appears on selected report forms only.)

Item 22.--See instructions on report form.

Item 23.--Certification.--Enter the month and day of the beginning and end of year your report covers. If a calendar year report: "From January 1 to December 31, 1958." If a fiscal year, specify which, such as: "From December 1, 1957, to November 30, 1958." If a part year report is submitted specify the actual period covered, for example: "January 1 to August 15, 1958" or "June 1 to December 31, 1958."

12243--U.S. Dept. of Comm--DC--1958

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT HOURS IN THOUSANDS

GPO 867462

**ORIGINAL** Return this copy to  
Bureau of the Census

Form  
MC-105

U. S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

# 1958 CENSUS OF MINERAL INDUSTRIES

## METALLIC ORES

CENSUS USE ONLY		Location				F/O
0						
0-1		0-2				

### PLEASE READ ENCLOSED INSTRUCTIONS BEFORE COMPLETING REPORT.

Please complete and return this form in the return envelope to the Bureau of the Census, Jeffersonville, Indiana, **not later than 30 days** after you receive it. A separate report is required from the operator for each mine or separately operated mill or washing plant.

<b>ITEM 1A</b> NAME OF ESTABLISHMENT (In answering Item 1B, parts (1) through (5) below, be sure your answers relate to the ACTUAL PHYSICAL LOCATION of your establishment, which may be different from its mailing address.)		NAME	
<b>ITEM 1B</b> LOCATION OF ESTABLISHMENT		1. STATE	2. COUNTY
<b>3. Is this establishment within the legal boundary of a municipality?</b> If "Yes," (a) Enter name of the municipality. (Enter name only if establishment is within legal boundary)  (b) Type of municipality. (Check applicable box) <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Borough <input type="checkbox"/> Other (Specify) _____		Yes <input type="checkbox"/>	No <input type="checkbox"/>
<b>4. STREET AND NUMBER AT ESTABLISHMENT LOCATION</b> (If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e. g., Rt. 25, 3 miles South of Charlesville.)			
<b>5. Is this establishment within a town or township?</b> IF "YES," ENTER NAME OF TOWN OR TOWNSHIP		Yes <input type="checkbox"/>	No <input type="checkbox"/>
For establishments in New England, New Jersey, and Pennsylvania			

Form approved; Budget Bureau No. 41-58106.

**CONFIDENTIAL.**—This report is required by Act of Congress, approved August 31, 1954 (13 U.S.C. 131 and 224). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation, or regulation.

In correspondence pertaining to this report please refer to this file number \_\_\_\_\_

MC-105 (1030)

(Please correct any errors in name and address)

<b>ITEM 2A</b> FEDERAL SOCIAL SECURITY EMPLOYER IDENTIFICATION NUMBER	Federal Social Security Employer Identification Number of this establishment (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941) _____ (Enter all 9 digits)
<b>ITEM 2B</b> COMPANY ORGANIZATION OF OPERATING COMPANY	(a) Does this company operate more than one place of business under the same Employer Identification Number (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)? Yes <input type="checkbox"/> No <input type="checkbox"/> (b) Does this company own or control another company? Yes <input type="checkbox"/> No <input type="checkbox"/> (c) Is this company owned or controlled by another company? If "Yes" is checked in Part (c), give name and address of owning or controlling company. Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>ITEM 2C</b> FORM OF OWNERSHIP OF OPERATING COMPANY	(Check one) (1) <input type="checkbox"/> Individual proprietor (2) <input type="checkbox"/> Partnership (3) <input type="checkbox"/> Corporation (Do not include any form of coop. ass'n) (4) <input type="checkbox"/> Cooperative association (corporate or noncorporate) (5) <input type="checkbox"/> Other (Specify) _____



IMPORTANT: Enter all figures, except for Items 4 and 5, in THOUSANDS									
ITEM 3 TOTAL 1958 PAYROLLS	Total 1958 payrolls: wages, salaries, bonuses, commissions and other remunerations paid in entire year 1958, before deductions. (Exclude payments to proprietors and partners, if an unincorporated firm, and payments to employees of contractors. You may follow the definition of salaries and wages that is used for calculating the withholding tax.)						Amount (Thousands of dollars)	KEY	
								0-5	
ITEM 4 NUMBER OF EMPLOYEES IN 1958	Total number of employees during the pay period ended nearest the 15th of the following months in 1958. (Exclude proprietors and partners, if an unincorporated concern, and employees of contractors. You may follow the definition of employees specified by your State Employment Security Agency.)						March 1958 0-6 May 1958 0-7 August 1958 0-8 November 1958 0-9	0-5	
ITEM 5 PROPRIETORS AND FIRM MEMBERS IN 1958	a. Total number of proprietors and firm members (not applicable to corporations)						8 8-1 666	8-2	
	b. Number of proprietors and firm members (included in (a) above) regularly performing production or development work at this establishment.							8-3	
ITEM 6 COST OF SUPPLIES, MINERALS RECEIVED FOR MILLING, FUELS, ELECTRICITY, CONTRACT WORK, AND MACHINERY IN 1958	a. Cost of supplies, minerals received for milling, fuel and electric energy used during 1958 (Include explosives, steel products, and mine timbers and ties. Exclude machinery. Also report separately minerals received for milling in Item 17)						Cost (Thousands of dollars)	1	
	b. Cost of contract work done for you by others during 1958						\$	1-1X	
	c. Total cost, excluding purchased machinery (Sum of a and b)						\$	1-3	
	d. Cost of purchased machinery installed (Include all new and used machinery, equipment, parts, and used plant not included above)						\$	1-4XX	
ITEM 7	(Not applicable to this form)							1-8	
ITEM 8 CAPITAL EXPENDITURES IN 1958	Capital expenditures during 1958 for development and exploration of mineral properties, construction, machinery, and equipment (Include major alterations and capitalized repairs; exclude land and mineral rights. Include expenditures which are chargeable to fixed assets accounts for which depreciation, depletion, or Defense Minerals Exploration Administration accounts are maintained). If no capital expenditures were made during year, insert "0".						Amount (Thousands of dollars)	1-9	
ITEMS 9-11	(Not applicable to this form)								
ITEM 12	Status of establishment if no minerals were produced during 1958 (check one): (See also Items 18a and 18b.)						<input type="checkbox"/> Development and exploration work only <input type="checkbox"/> Idle <input type="checkbox"/> Abandoned <input type="checkbox"/> Exhausted		
ITEMS 13-16	(Not applicable to this form)								

(Please complete form and sign certification on reverse side.)

## Page 2

Page 2



Concentrates	Gold	5	10421 01	3	Short ton		\$
	Silver	6	10441 01	5	Short ton		\$
	Manganese	7	10621 01	9	Long ton		\$
	Tungsten (dry measure)	8	10641 01	1	Short ton		\$
	Chromium (wet measure)	9	10671 01	4	Short ton		\$
	Mercury	10	10921 01	8	Short ton		\$
	Uranium-vanadium	11	10941 01	0	Short ton		\$
	Other metals (Specify kind and unit of measure)						
	Iron	12					\$
	Copper	13	10112 01	6	Long ton		\$
	Lead	14	10212 01	9	Short ton		\$
Metals	Zinc	15	10322 01	3	Short ton		\$
	Manganese	16	10332 01	4	Short ton		\$
	Tungsten	17	10622 01	2	Long ton		\$
	Chromium	18	10642 01	4	Short ton		\$
	Uranium-vanadium	19	10672 01	7	Short ton		\$
	Other concentrates (Specify kind and unit of measure)	20	10942 01	3	Short ton		\$
	Placer gold	21					\$
	Placer silver	22	10433 07	8	Fine ounce		\$
	Mill bullion (quantity of metals contained)	23	10443 07	9	Fine ounce		\$
	Gold	24	10423 01	9	Fine ounces of gold		\$
	Silver	25	10443 01	1	Fine ounces of silver		\$
All other products	Mercury	26	10923 01	4	Flask, 76 lbs.		\$
	(Specify kind and unit of measure)	27					\$
	Amount received or due for work or services performed for other establishments (Specify type)	28	10808 01	4			\$
	Total (sum of lines 1-28)	29	77000 99	4			\$

Remarks

ITEMS 19-21 (Not applicable to this form)

ITEM 22 NAME AND ADDRESS OF PERSON WHO SHOULD BE CONTACTED IF QUESTIONS ARISE REGARDING THIS REPORT

TELEPHONE NO.

ITEM 23

CERTIFICATION

This report is substantially accurate and covers the period from \_\_\_\_\_ to \_\_\_\_\_

DATE

TITLE

SIGNATURE OF AUTHORIZED PERSON

**ORIGINAL** Return this copy to  
Bureau of the Census

U. S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

Form  
**MC-12A**

# 1958 CENSUS OF MINERAL INDUSTRIES COAL

CENSUS USE ONLY		Location		F/O
0				
0-1		0-2		

**PLEASE READ ENCLOSED INSTRUCTIONS BEFORE COMPLETING REPORT.**

Please complete and return this form in the return envelope to the Bureau of the Census, Jeffersonville, Indiana, **not later than 30 days** after you receive it. A separate report is required from the operator for each underground mine, strip pit, auger mine, culm bank, dredge, or separately operated preparation plant.

**ITEM 1A**  
NAME OF ESTABLISHMENT

(In answering Item 1B, parts (1) through (5) below, be sure your answers relate to the ACTUAL PHYSICAL LOCATION of your establishment, which may be different from its mailing address.)

**ITEM 1B**  
LOCATION OF ESTABLISHMENT

1. STATE

2. COUNTY

3. Is this establishment within the legal boundary of a municipality? Yes ☐ No ☐

If "Yes,"

(a) Enter name of the municipality. (Enter name only if establishment is within legal boundary)

(b) Type of municipality. (Check applicable box)

☐ City ☐ Village ☐ Borough

☐ Other (Specify) \_\_\_\_\_

4. STREET AND NUMBER AT ESTABLISHMENT LOCATION (If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e. g., Rt. 25, 3 miles South of Charlesville.)

For establishments in New England, New Jersey, and Pennsylvania

5. Is this establishment within a town or township? Yes ☐ No ☐

IF "YES," ENTER NAME OF TOWN OR TOWNSHIP

Form approved; Budget Bureau No. 41-58106.

**CONFIDENTIAL.**—This report is required by Act of Congress, approved August 31, 1954 (13 U.S.C. 131 and 224). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation, or regulation.

In correspondence pertaining to this report please refer to this file number \_\_\_\_\_

MC-12A (1201)

(Please correct any errors in name and address)

**ITEM 2A**  
FEDERAL SOCIAL SECURITY EMPLOYER IDENTIFICATION NUMBER

Federal Social Security Employer Identification Number of this establishment (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)

(Enter all 9 digits)

**ITEM 2B**  
COMPANY ORGANIZATION OF OPERATING COMPANY

(a) Does this company operate more than one place of business under the same Employer Identification Number (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)? Yes ☐ No ☐

(b) Does this company own or control another company? Yes ☐ No ☐

(c) Is this company owned or controlled by another company? If "Yes" is checked in Part (c), give name and address of owning or controlling company. Yes ☐ No ☐

**ITEM 2C**  
FORM OF OWNERSHIP OF OPERATING COMPANY

(Check one)

(1) ☐ Individual proprietor

(2) ☐ Partnership

(3) ☐ Corporation (Do not include any form of coop. ass'n)

(4) ☐ Cooperative association (corporate or noncorporate)

(5) ☐ Other (Specify) \_\_\_\_\_



DEFINITIONS FOR ITEMS 3, 4, AND 5A

**Production and Development Workers.**—Workers (up through the working foreman level) engaged in manual work, using tools, operating machines, hauling materials, loading and hauling products out of mine; caring for mines, plants, or shops; exploration work, mine development, storage, shipping, maintenance, repair, watchman services, auxiliary production for own use (e. g., power plant), record keeping, and other services closely associated with these production and development operations. **Exclude** supervisory employees above working foreman level. **Include** workers paid on a tonnage basis. **Exclude** employees of contractors.

**All Other Employees.**—Nonproduction personnel at this establishment engaged in supervision

above working foreman level, sales, highway trucking (by employees not entering mines), advertising, credit, collection, clerical and routine office functions, executive, purchasing, finance; and in legal, personnel (including cafeteria, medical, etc.), professional (engineers, geologists, etc.), and technical work. **Include** force-account construction employees on your payroll engaged in construction of major additions or alterations to the plant who are utilized as a separate work force. Workers engaged in regular maintenance and repair operations should be included with production and development workers. **Include** officers at this establishment, if a corporation, but **exclude** proprietor or partners, if unincorporated. **Exclude** employees of contractors.

ITEM 3 PAYROLLS IN 1958 (\$000)	Enter the total of wages, salaries, bonuses, commissions, and other remunerations in the entire year, before deductions, paid to—	1958 Thousands of dollars	KEY 0-5
ITEM 4 NUMBER OF EMPLOYEES IN 1958	Production and development workers during pay period ended nearest 15th of— (See definitions above Item 3)	Thousands of dollars	0-6
ITEM 5A MAN-HOURS OF PRODUCTION AND DEVELOPMENT WORKERS, BY DEPARTMENT, IN 1958 (Thousands)	Enter the total number of man-hours of production and development workers (as defined above) for each department. Do not include hours for paid vacations, holidays, or sick leave.	Thousands of hours	0-7
ITEM 5B PROPRIETORS AND FIRM MEMBERS IN 1958	a. Total number of proprietors and firm members (not applicable to corporations) b. Number of proprietors and firm members (included in a. above) regularly performing production or development work at this establishment	Number of persons	0-8

a. Production and development workers		\$	0-5
b. All other employees		\$	0-6
c. Total payrolls (Sum of a and b)		\$	0-7
a. March 1958			0-8
b. May 1958			0-9
c. August 1958			0-10
d. November 1958			1
e. Sum of lines a, b, c, and d			1-1
f. Average number (Divide sum on line e by 4)			1-2
g. March 1958			1-3
h. Total (Sum of f and g)			1-4
a. At mine (mining and development)	(1) Underground	8 8-1 555	1-5★
	(2) Strip-pit, auger, culm bank, and dredge		8-2
	(3) Surface (including mine shops and yards)		8-3
b. At preparation plant (including auxiliary works for plant)			8-4
c. Total production and development worker man-hours (Sum of a and b)			8-5
d. Man-hours included above which were spent on development and exploration work <sup>1</sup>			8-6
			8-7
a. Total number of proprietors and firm members (not applicable to corporations)			8-8
b. Number of proprietors and firm members (included in a. above) regularly performing production or development work at this establishment			8-9★

<sup>1</sup> Report total man-hours in 1958 devoted to development and exploration work charged to capital or depletion accounts. Include shaft sinking, exploration drilling, and overburden stripping charged to such accounts. The cost of such work usually should be included in item 6a. (OVER)

ITEM 6 COST OF SUPPLIES, COAL RECEIVED FOR PREPARATION, COAL FOR RESALE, PURCHASED FUELS, ELECTRIC ENERGY, CONTRACT WORK, AND MACHINERY IN 1958 (\$000)		ITEM 7 (Not applicable to this form)		ITEM 8 CAPITAL EXPENDITURES FOR THIS ESTABLISH- MENT IN 1958 (Exclude expenditures for land and mineral rights) (\$000)		ITEM 9 QUANTITY OF ELECTRIC ENERGY USED IN 1958 (Thousands of kilowatt hours)		ITEMS 10, 11		ITEM 12 STATUS OF OWNERSHIP OR OPERATION OF ESTABLISH- MENT SINCE DECEMBER 31, 1957	
<p>Include all such items charged to both current and capital accounts. (Costs charged to capital accounts should also be included in Item 8.) Report the cost of all items actually used or processed in 1958, whether purchased, withdrawn from inventories, or received from other establishments of this company. If your records do not show actual amounts used or processed, this may be computed by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Purchase records instead of company records may be used for any major item, if purchases closely approximate consumption, and for all minor items.</p> <p>"Cost" refers to amounts actually paid or payable after discounts, and includes freight and other direct charges incurred in acquiring the items. For items transferred from other establishments of this company, report the approximate commercial value as received. Contract work should represent amounts paid or due contracting concerns for work done during 1958 in the operation or development of this establishment, such as pumping, tunneling, shaft sinking, stripping, boring test holes, shop work, repair work, and construction.</p>				<p>Expenditures refer to all costs actually incurred during 1958, whether on contract or by your own forces, which are chargeable to the fixed assets accounts of this establishment and which are of the type for which depreciation or depletion accounts are ordinarily maintained. Do not include the cost of maintenance and repairs charged as current operating expense.</p> <p>If, during 1958, you did not make any expenditure for this establishment of the kind described above, enter "None" on line e.</p>		<p><b>Report on line a</b>, all electric energy purchased for light, heat, and power. Do not include electric energy purchased for resale.</p> <p><b>Report on line b</b>, all electric energy generated at this establishment whether for use by this establishment or for sale.</p> <p><b>Report on line c</b>, sales or transfers of electric energy generated at this establishment.</p>		(Not applicable to this form)		<p>a. Change in ownership or operation of this establishment since December 31, 1957 (Check one)</p> <p>(1)* <input type="checkbox"/> Purchased or leased by you on _____ (date)</p> <p>(2)* <input type="checkbox"/> Sold or leased to another operator on _____ (date)</p> <p>(3)* <input type="checkbox"/> Reorganized (partnership change or change in corporate status)</p>	
<p>ITEM 6 COST OF SUPPLIES, COAL RECEIVED FOR PREPARATION, COAL FOR RESALE, PURCHASED FUELS, ELECTRIC ENERGY, CONTRACT WORK, AND MACHINERY IN 1958 (\$000)</p>		<p>ITEM 7 (Not applicable to this form)</p>		<p>ITEM 8 CAPITAL EXPENDITURES FOR THIS ESTABLISH- MENT IN 1958 (Exclude expenditures for land and mineral rights) (\$000)</p>		<p>ITEM 9 QUANTITY OF ELECTRIC ENERGY USED IN 1958 (Thousands of kilowatt hours)</p>		<p>ITEMS 10, 11</p>		<p>ITEM 12 STATUS OF OWNERSHIP OR OPERATION OF ESTABLISH- MENT SINCE DECEMBER 31, 1957</p>	
<p>Include all such items charged to both current and capital accounts. (Costs charged to capital accounts should also be included in Item 8.) Report the cost of all items actually used or processed in 1958, whether purchased, withdrawn from inventories, or received from other establishments of this company. If your records do not show actual amounts used or processed, this may be computed by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Purchase records instead of company records may be used for any major item, if purchases closely approximate consumption, and for all minor items.</p> <p>"Cost" refers to amounts actually paid or payable after discounts, and includes freight and other direct charges incurred in acquiring the items. For items transferred from other establishments of this company, report the approximate commercial value as received. Contract work should represent amounts paid or due contracting concerns for work done during 1958 in the operation or development of this establishment, such as pumping, tunneling, shaft sinking, stripping, boring test holes, shop work, repair work, and construction.</p>				<p>Expenditures refer to all costs actually incurred during 1958, whether on contract or by your own forces, which are chargeable to the fixed assets accounts of this establishment and which are of the type for which depreciation or depletion accounts are ordinarily maintained. Do not include the cost of maintenance and repairs charged as current operating expense.</p> <p>If, during 1958, you did not make any expenditure for this establishment of the kind described above, enter "None" on line e.</p>		<p><b>Report on line a</b>, all electric energy purchased for light, heat, and power. Do not include electric energy purchased for resale.</p> <p><b>Report on line b</b>, all electric energy generated at this establishment whether for use by this establishment or for sale.</p> <p><b>Report on line c</b>, sales or transfers of electric energy generated at this establishment.</p>		(Not applicable to this form)		<p>a. Change in ownership or operation of this establishment since December 31, 1957 (Check one)</p> <p>(1)* <input type="checkbox"/> Purchased or leased by you on _____ (date)</p> <p>(2)* <input type="checkbox"/> Sold or leased to another operator on _____ (date)</p> <p>(3)* <input type="checkbox"/> Reorganized (partnership change or change in corporate status)</p>	



(4) <input type="checkbox"/> Went out of business (no new owner) on _____ (date) (5) <input type="checkbox"/> No change	* Make certain that you have entered in Item 2A the current (or most recent) Federal Social Security Employer Identification Number of this establishment.  b. Status of establishment if no minerals were produced during 1958 (Check one): <input type="checkbox"/> Development and exploration work only <input type="checkbox"/> Abandoned <input type="checkbox"/> Exhausted <input type="checkbox"/> Idle	Please Note— 1. The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. 2. Incomplete answers will result in correspondence which is both costly and time consuming. Be sure to <b>complete every item</b> . Enter "None" in all items where appropriate. 3. Reasonably accurate estimates are acceptable. The statistical purposes of the Census will not be affected by such estimates. Preparing estimates at the time the report is completed will avoid the necessity for further correspondence on blank items. 4. All money figures should be reported in thousands of dollars. For example, if the complete dollar figure to be reported is \$1,367,700 enter \$1,368. All quantity figures should be reported in the unit specified in the item.
ITEM 13 CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT	5. Failure to file reports within the requested period results in costly delays and follow-up letters. Please submit your reports as quickly as possible. 6. It is very difficult and costly to process your correspondence if you do not show your file number (see address box) on all correspondence concerning your Census reports. 7. The following inquiry is provided to call your attention to possible oversights and errors in the data entered on your form. To save you future correspondence about these problems, please make the checks indicated below before returning your report: a. Review the report carefully to see that no items are omitted. b. Calculate the four "reasonableness" checks described below, entering the figures for each, and analyze your results. c. Correct your report for any errors you find; explain unusual figures in the "Remarks" section below.	
	Calculation required for each check	1958
"Reasonableness" checks  1. Average hourly wages per worker  2. Hours worked per year per worker  3. Salaries and wages per dollar of shipments  4. Supplies, etc., cost per dollar of shipments	Item 3a (Production worker wages) ÷ Item 5Ac (Total man-hours)  Item 5Ac (Total man-hours) × 1,000 ÷ Item 4f (Average production workers)  Item 3c (Total payrolls) ÷ Item 18, Total, Col. (E) (Value of shipments)  Item 6f (Supplies, etc., cost) ÷ Item 18, Total, Col. (E) (Value of shipments)	\$      c  c
REMARKS		
ITEM 14 ITEM 15	(Not applicable to this form)	

(Please continue on next page.)

Form MC-12A

## 1958 CENSUS OF MINERAL INDUSTRIES

## COAL—Continued

ESTABLISHMENT IDENTIFICATION NO

CENSUS  
USE ONLY

NAME OF ESTABLISHMENT (Same as address box)

## ITEM 16

PURCHASED  
FUELS  
USED  
IN  
1958Report quantities in units specified; report **total** delivered cost in thousands of dollars. Do not report cost per unit.

Line No.	Item A	5	5-1	Unit of measure B	Quantity C	5-3 Cost (Thousands of dollars) D
1	Coal purchased: bituminous, lignite, and anthracite (Do not include coal reported in Item 18b, Col. H)		10	Short ton		
2	Fuel oil, all types		30	Bbl. (42 gals.)		
3	Gas: natural, manufactured, and mixed		40	Thousand cu. ft.		
4	Other fuels: gasoline, liquefied petroleum gas, wood, coke, and others		50			
5	Total (Sum of lines 1-4; should be same as Item 6c.)					

## ITEM 17

SUPPLIES  
USED  
AND COAL  
FOR  
PREPARATION  
IN 1958

## REPORT ALL COST FIGURES IN THOUSANDS OF DOLLARS

**General.**—This inquiry calls for a breakdown of the supplies used and coal received for preparation at this establishment during 1958 reported in Item 6a of this form. Separate figures are required for each item listed below. The total cost in Item 17 should agree with Item 6a.

**Cols. D and E—Consumption of Items Received From Other Establishments.**—Report the quantity (Col. D) and delivered cost (Col. E) for each of the purchased items actually consumed or put into production during the year, whether received from other companies, withdrawn from inventory, or received from other establishments of this company.

**Col. D—Quantity.**—Report the quantities actually used in terms of the unit of measure specified in Col. C. If you do not have actual consumption records, but if purchases closely approximate consumption, your

purchase figures may be used in reporting the item. However, if, for one of the items separately listed, consumption differs significantly from purchases, please derive consumption figures by adding beginning inventory to purchases during the year and then subtracting closing inventory.

**Col. E—Delivered Cost.**—Report amounts actually paid or payable after discounts, and include freight and direct charges incurred in acquiring the quantities of the listed items during 1958. For items transferred from other establishments of this company, please estimate the commercial value of the item.

**Col. F—Raw Coal from this Mine.**—Do not include in this column the coal received from other establishments of your company. Such coal should be included in Columns D and E.

a. Coal for preparation (Estimate value of coal received for custom cleaning. Exclude coal purchased for resale without further processing)

Line No.	Item A	Census material code B	Unit of measure C	Received from other establishments of this company, purchased from others, and coal received for custom cleaning		Raw coal from this mine (Quantity) F
				Quantity D	Delivered cost (Thousands of dollars) E	
6		6-1		6-2	6-3	6-4
1	Raw coal mechanically cleaned by wet-washing or pneumatic methods (enter cleaned product in Item 18-b, line 3)	1211 91 7	Short ton		\$	





## Form MC-12A Coal—Continued

Page 4

**REPORT ALL VALUE FIGURES IN THOUSANDS OF DOLLARS**

Report separately each product listed; do not combine product lines. Include all products of this establishment in 1958. Include products shipped on consignment, whether or not sold at the end of 1958. Include products transferred to other establishments of your company (such as to cleaning plants at other locations, coke ovens at this or other locations, other manufacturing establishments, or separate sales branches). Report all coal in short tons of 2,000 pounds. Report the net total value f. o. b. this establishment, excluding freight or trucking charges on coal shipped to customers.

The Bureau of Mines (U. S. Department of the Interior) collects detailed figures on the mineral products listed below. This item provides only summary figures which will serve to relate the statistics compiled from the Census of Mineral Industries to the statistics compiled from Bureau of Mines surveys. For comparable items the same data should be reported both to the Bureau of Mines and the Bureau of the Census.

ITEM 18 TYPE OF OPERATION AND PRODUCTS AND SERVICES, ETC.—Continued	7	Product A	Line No.	7-1 Census product code B-1	7-2 Production (Short tons ) C	7-3 Shipments and interplant transfers		7-4XX Value f.o.b. this establishment (Thousands of dollars) E	7-7 Coal produced and used at this establishment for power or heat (Short tons) H
						Quantity (Short tons) D			
b. Products and Services		Raw coal (report only coal mined at this establishment; include hand-picked coal)							
		For shipment or use without preparation . . . . .	1	12111 01 5			\$		
		For preparation at other establishments (If coal was sold on a clean-coal basis, report total tonnage prior to allowance for refuse and waste. Enter name and location of plant or plants at which coal was prepared in the "Remarks" section of this report.) . . . . .	2	12111 03 1			\$		
		Prepared coal (report all coal prepared at this establishment, include coal prepared on a custom basis for others)							
		Mechanically cleaned by wet-washing or pneumatic methods . .	3	12112 01 8			\$		
		Other preparation only, such as crushing, screening, or sizing	4	12112 03 4			\$		
		Coal purchased and resold without further processing	5	99989 05 3			\$		
		Other products of this establishment, such as woods products, clay, stone, or sand (specify kind and unit of measure if not short tons)	6				\$		
	Amount received or due for services performed for other establishments (such as hauling, stripping, pumping, and shop work—exclude amounts received for coal preparation on a custom basis)	7	12808 01 6			\$			
	Total value (Sum of lines 1-7)	8	77000 00 8			\$			



c. Receipts for custom or fee preparation of coal	Net production, by method of mining (Include all marketable coal from this mine; exclude purchased coal and washery or other refuse. If coal was prepared at other establishments, report in prepared coal)										9	12110	10	0										
	Underground																							
ITEM 21 NUMBER OF PRODUCTION AND DEVELOPMENT WORKERS, BY MONTH	Strip pit Mined by own company										10	12110	30	2										
	Mined by contractor										11	12110	40	3										
	Other (Specify) <input type="checkbox"/> Auger mine <input type="checkbox"/> Culm Bank <input type="checkbox"/> Dredge																							
	Mined by own company										12	12110	60	5										
ITEM 22	Mined by contractor										13	12110	70	6										
	Total production (Sum of lines 9-13)										14	12110	00	9										
ITEM 23 CERTIFICATION	Amount received or due for coal preparation on a custom or fee basis										8		8-1		8-2		Amount received or due (Thousands of dollars)							
	(Not applicable to these industries)										911		\$											
ITEM 24 CENSUS CODE	Census code										8-1		8-2		8-3		8-4		8-5		8-6		8-7	
	Number of production and development workers in pay period ended nearest 15th of each month in 1958 (Figures for March, May, August, and November should be the same as Item 4, lines a, b, c, and d)										January		February		March		April		May		June			
ITEM 25 TELEPHONE NO	22										July		August		September		October		November		December			
	33																							
NAME AND ADDRESS OF PERSON WHO SHOULD BE CONTACTED IF QUESTIONS ARISE REGARDING THIS REPORT																								
This report is substantially accurate and covers the period from _____ to _____																								
DATE												SIGNATURE OF AUTHORIZED PERSON												

Return this copy to  
Bureau of the Census**ORIGINAL**U. S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUSForm  
MC-13A**1958 CENSUS OF MINERAL INDUSTRIES  
CRUDE PETROLEUM AND NATURAL GAS**

CENSUS USE ONLY		Location		F/O	
0					
0-1		0-2			

**PLEASE READ ENCLOSED INSTRUCTIONS BEFORE COMPLETING REPORT**

Please complete and return this form in the return envelope to the Bureau of the Census, Jeffersonville, Indiana, **not later than 30 days** after you receive it. A separate report is required for each State (including offshore operations) in which you operated or drilled oil or gas wells, or performed exploration work for oil or gas. The report should be on a gross basis for all leases operated by you, but should exclude your interests in leases operated by others. A separate report on Form MC-13X is also required for States in which you had offshore operations. Do not include in this report the operation of natural gas liquids plants, petroleum refineries, or natural gas distribution systems.

NAME AND ADDRESS

**ITEM 1A  
NAME AND  
ADDRESS OF  
OPERATING  
COMPANY**

STATE IN WHICH PROPERTIES INCLUDED IN THIS REPORT ARE LOCATED

**ITEM 1B  
LOCATION OF  
OPERATIONS**

Form approved: Budget Bureau No. 41-58106.

**CONFIDENTIAL.**—This report is required by Act of Congress, approved August 31 1954 (13 U.S.C. 131 and 224). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation, or regulation.

In correspondence pertaining to this report  
please refer to this file number

MC-13A(1301)

(Please correct any errors in name and address)

**ITEM 2A  
FEDERAL SOCIAL  
SECURITY  
EMPLOYER  
IDENTIFICATION  
NUMBER**

Federal Social Security Employer Identification Number of this establishment (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)

(Enter all 9 digits)

**ITEM 2B  
COMPANY  
ORGANIZATION  
OF OPERATING  
COMPANY**

(a) Does this company operate more than one place of business under the same Employer Identification Number (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)?

Yes ☐ No ☐

(b) Does this company own or control another company?

Yes ☐ No ☐

(c) Is this company owned or controlled by another company? If "Yes" is checked in Part (c), give name and address of owning or controlling company.

Yes ☐ No ☐**ITEM 2C  
FORM OF  
OWNERSHIP  
OF OPERATING  
COMPANY**

(Check one)

(1) ☐ Individual proprietor(2) ☐ Partnership(3) ☐ Corporation (Do not include any form of cooperative association)(4) ☐ Cooperative association (corporate or noncorporate)(5) ☐ Other (Specify) \_\_\_\_\_



## DEFINITIONS FOR ITEMS 3, 4, AND 5A

**Production and Development Workers.**—Workers up through the working foreman level (such as drillers) engaged in manual work, using tools, operating machines, and caring for wells; storage, shipping, maintenance, repair, workman services, auxiliary production for own use at this operation (e. g., power plant), record keeping, and other services closely associated with these production and development operations. **Exclude** supervisory employees above working foreman level, such as tool pushers. **Exclude** employees of contractors.

**All Other Employees.**—Nonproduction personnel above working foreman level engaged in supervision, sales, highway trucking, advertising, credit, collection, cler-

ical and routine office functions, executive, purchasing, finance; and in legal, personnel (including cafeteria, medical, etc.), professional (engineers, geologists, etc.), and technical work. **Include** force-account construction employees on your payroll engaged in construction of major additions or alterations to plant who are utilized as a separate work force. Workers engaged in regular maintenance and repair operations should be included with production and development workers. **Include** officers at this establishment, if a corporation, but **exclude** proprietor or partners, if unincorporated. **Exclude** employees of contractors.

ITEM 3 PAYROLLS IN 1958 (\$000)	Enter the total of wages, salaries, bonuses, commissions, and other remunerations in the entire year, before deductions, paid to—	1958		KEY							
		Thousands of dollars									
ITEM 4 NUMBER OF EMPLOYEES IN 1958	Production and development workers during pay period ended nearest 15th of— (See definitions above Item 3)	a. Production and development workers	\$	0-5							
		b. All other employees	\$	0-6							
		c. Total payrolls (Sum of a and b)	\$	0-7							
		a. March 1958	Number of employees								
		b. May 1958									
		c. August 1958									
		d. November 1958									
		e. Sum of lines a, b, c, and d									
		f. Average number (Divide sum on line e by 4)									
		g. March 1958									
ITEM 5A MAN-HOURS OF PRODUCTION AND DEVELOP- MENT WORKERS, BY DEPARTMENT, IN 1958 (Thousands)	Enter the total number of man-hours of production and development workers (as defined above) for each department. Do not include hours for paid vacations, holidays, or sick leave.	h. Total (Sum of f and g)	B	0-1	555	Thousands of hours	1-5★				
		a. Operating and maintaining wells					0-2				
		b. Drilling wells and rig building					0-3				
		c. Exploration work (except drilling wells)					0-4				
		d. Other work (Specify)					0-5				
		e. Total production and development worker man-hours (Sum of a, b, c, and d)					0-6X				
		a. Total number of proprietors and firm members (not applicable to corporations)					0-8				
		b. Number of proprietors and firm members (included in a. above) regularly performing production or development work at this establishment					0-9★				

(OVER)

## FORM MC-13A—Crude Petroleum and Natural Gas—Continued

Page 2

ITEM 6		ITEM 7		ITEM 8		ITEM 9		ITEMS 10, 11		ITEM 12	
COST OF SUPPLIES, GAS PURCHASED FOR GAS LIFT, PURCHASED FUELS, ELECTRIC ENERGY, CONTRACT WORK, AND MACHINERY IN 1958 (\$000)		(Not applicable to this form)		CAPITAL EXPENDITURES FOR THIS ESTABLISHMENT IN 1958 (Exclude expenditures for land and mineral rights) (\$000)		QUANTITY OF ELECTRIC ENERGY USED IN 1958 (Thousands of kilowatt hours)		(Not applicable to this form)		STATUS OF OWNERSHIP OR OPERATION OF ESTABLISHMENT SINCE DECEMBER 31, 1957	
Include all such items charged to both current and capital accounts. (Costs charged to capital accounts should also be included in Item 8.) Report the cost of all items actually used in 1958, whether purchased, withdrawn from inventories, or received from other establishments of this company. If your records do not show actual amounts used, this may be computed by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Purchase records instead of consumption records may be used for any major item, if purchases closely approximate consumption, and for all minor items. "Cost" refers to amounts actually paid or payable after discounts, and includes freight and other direct charges incurred in acquiring the items. For items transferred from other establishments of this company, report the approximate commercial value as received. Contract work should represent amounts paid or due contracting concerns for work done during 1958.				Expenditures refer to all costs actually incurred during 1958, whether on contract or by your own forces, which are chargeable to the fixed assets accounts of this establishment and which are of the type for which depreciation or depletion accounts are ordinarily maintained. Do not include the cost of maintenance and repairs charged as current operating expense. If, during 1958, you did not make any expenditure for this establishment of the kind described above, enter "None" on line e.		Report on line a, all electric energy purchased for light, heat, and power. Do not include electric energy purchased for resale.				a. Change in operation of this establishment since December 31, 1957 (Check one)	
						Report on line b, all electric energy generated at this establishment whether for use by this establishment or for sale.				(1)* <input type="checkbox"/> Purchased or leased by you on _____ (date)	
						Report on line c, sales or transfers of electric energy generated at this establishment.				(2)* <input type="checkbox"/> Sold or leased to another operator on _____ (date)	
										(3)* <input type="checkbox"/> Reorganized (partnership change or change in corporate status)	

ITEM		1958		KEY	
Item		Thousands of dollars			
a.	Supplies used and gas purchased for gas lift and repressuring (See instructions in Item 17.)	\$		2	2-1X
b.	(Not applicable to this form)				
c.	Purchased fuels used (See instructions in Item 16.)	\$		2-3	
d.	Purchased electric energy (exclude energy purchased for resale)	\$		2-4	
e.	Contract work done for you by others (such as exploration work, drilling and completing wells, rig building, cementing, logging and surveying, chemical treatment, cleaning out, pulling casing, plugging, hauling, repair work, pumping wells, and construction)	\$		2-5	
f.	Total cost, excluding purchased machinery (Sum of a through e)	\$		2-6	
g.	Purchased machinery installed (include all new and used machinery, equipment, parts, and used plant not included above)	\$		2-7	

Type of capital expenditure (Excluding land and mineral rights)		Expenditures (Thousands of dollars)		Key	
a.	Development and exploration of mineral property	\$		2-8★	
b.	Other construction	\$		4	
c.	New machinery and new equipment (including capitalized repairs and improvements)	\$		4-1	
d.	Used plant and used equipment acquired from others	\$		4-2	
e.	Total capital expenditures (Sum of a, b, c, and d)	\$		4-3	
		\$		4-4	
a.	Purchased electric energy (for which cost is reported in Item 6d)		Thousands of KWH	4-5	
b.	Generated electric energy (Gross less generating-station use)			4-6	
c.	Electric energy sold or transferred to other establishments			4-7★	

Give name and address of former owner or lessee (if box (1) is checked) or purchaser or lessee (if box (2) is checked): \_\_\_\_\_



(4) <input type="checkbox"/> Went out of business (no new operator) on _____ (date) (5) <input type="checkbox"/> No change	* Make certain that you have entered in Item 2A the current (or most recent) Federal Social Security Employer Identification Number of this establishment.	<input type="checkbox"/> Exploration work only <input type="checkbox"/> Shut in <input type="checkbox"/> Abandoned <input type="checkbox"/> Drilling only															
<b>b. Status of establishment if no oil or gas was produced during 1958 (Check one):</b>																	
<b>Please Note—</b> 1. The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. 2. Incomplete answers will result in correspondence which is both costly and time consuming. Be sure to <b>complete every item</b> . Enter "None" in all items where appropriate. 3. Reasonably accurate estimates are acceptable. The statistical purposes of the Census will not be affected by such estimates. Preparing estimates at the time the report is completed will avoid the necessity for further correspondence on blank items. 4. All money figures should be reported in thousands of dollars. For example, if the complete dollar figure to be reported is \$1,367,700 enter \$1,368. All quantity figures should be reported in the unit specified in the item.																	
<b>ITEM 13</b> CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT	5. Failure to file reports within the requested period results in costly delays and follow-up letters. Please submit your reports as quickly as possible. 6. It is very difficult and costly to process your correspondence if you do not show your file number (see address box) on all correspondence concerning your Census reports. 7. The following inquiry is provided to call your attention to possible oversights and errors in the data entered on your form. To save you future correspondence about these problems, please make the checks indicated below before returning your report: a. Review the report carefully to see that no items are omitted. b. Calculate the four "reasonableness" checks described below, enter the figures for each, and analyze your results. c. Correct your report for any errors you find; explain unusual figures in the "Remarks" section below.																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">"Reasonableness" checks</th> <th style="width: 35%;">Calculation required for each check</th> <th style="width: 30%;">1958</th> </tr> </thead> <tbody> <tr> <td>1. Average hourly wages per worker</td> <td>Item 3a (Production worker wages) ÷ Item 5Ae (Total man-hours)</td> <td>\$</td> </tr> <tr> <td>2. Hours worked per year per worker</td> <td>Item 5Ae (Total man-hours) × 1,000 ÷ Item 4f (Average production workers)</td> <td></td> </tr> <tr> <td>3. Salaries and wages per dollar of shipments</td> <td>Item 3c (Total payrolls) ÷ Item 18, Total, Col. (E) (Value of shipments)</td> <td>¢</td> </tr> <tr> <td>4. Supplies, etc., cost per dollar of shipments</td> <td>Item 6f (Supplies, etc., cost) ÷ Item 18, Total, Col. (E) (Value of shipments)</td> <td>¢</td> </tr> </tbody> </table>			"Reasonableness" checks	Calculation required for each check	1958	1. Average hourly wages per worker	Item 3a (Production worker wages) ÷ Item 5Ae (Total man-hours)	\$	2. Hours worked per year per worker	Item 5Ae (Total man-hours) × 1,000 ÷ Item 4f (Average production workers)		3. Salaries and wages per dollar of shipments	Item 3c (Total payrolls) ÷ Item 18, Total, Col. (E) (Value of shipments)	¢	4. Supplies, etc., cost per dollar of shipments	Item 6f (Supplies, etc., cost) ÷ Item 18, Total, Col. (E) (Value of shipments)	¢
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2. Hours worked per year per worker	Item 5Ae (Total man-hours) × 1,000 ÷ Item 4f (Average production workers)																
3. Salaries and wages per dollar of shipments	Item 3c (Total payrolls) ÷ Item 18, Total, Col. (E) (Value of shipments)	¢															
4. Supplies, etc., cost per dollar of shipments	Item 6f (Supplies, etc., cost) ÷ Item 18, Total, Col. (E) (Value of shipments)	¢															
<b>REMARKS</b>																	
<b>ITEM 14</b> <b>ITEM 15</b>	(Not applicable to this form)																

(Please continue on next page.)

Form MC-33A		CENSUS USE ONLY		ESTABLISHMENT IDENTIFICATION NO.		
1958 CENSUS OF MINERAL INDUSTRIES CRUDE PETROLEUM AND NATURAL GAS—Continued		NAME OF ESTABLISHMENT (Same as address box)				
ITEM 16 PURCHASED FUELS USED IN 1958	Report quantities in units specified; report total delivered cost in thousands of dollars. Do not report cost per unit. Exclude oil and gas produced on these properties, which should be included in Item 18, lines 2 and 10.					
	Line No.	Item A	5 Code	5-1 Unit of measure B	5-2 Quantity C	5-3 Cost (Thousands of dollars) D
	1	Fuel oil, all types	30	Barrel (42 gals.)		\$
	2	Gas: natural, manufactured, and mixed (Exclude gas reported in Item 18, line 10)	40	Million cu. ft.		\$
	3	Other fuels: Gasoline, liquefied petroleum gas, coal, coke, wood, and other	50			\$
4	Total (Sum of lines 1-3; should be the same as Item 6c)					\$
ITEM 17 SUPPLIES USED AND GAS PURCHASED FOR GAS LIFT AND REPRESSURING IN 1958	REPORT ALL COST FIGURES IN THOUSANDS OF DOLLARS General.—This inquiry calls for a breakdown of the supplies used and gas purchased for gas lift and repressuring during 1958 reported in Item 6a of this form. Separate figures are required for each item below. The total cost in Item 17 should agree with Item 6a. Col. E.—Consumption of Supplies Received From Other Establishments.—Report supplies actually used during the year, whether received from other companies, withdrawn from inventory, or received from other establishments of this company. Col. F.—Delivered Cost.—Report amounts actually paid or payable after other discounts, and include freight and direct charges incurred in acquiring the items used during 1958. For items transferred from other establishments of this company, please estimate the commercial value of the items.					
	6 Line No.	6-1 Code B	6-2 Unit of measure C	6-3 Quantity D	6-4 Delivered cost (Thousands of dollars) E	
	1	131397	6	Million cu. ft.	\$	
	2	970097	8		\$	
	3				\$	
Total (sum of lines 1 and 2; should be the same as Item 6a)					\$	
ITEM 18 PRODUCTS AND SERVICES OF THIS ESTABLISH- MENT IN 1958	REPORT ALL VALUE FIGURES IN THOUSANDS OF DOLLARS Report separately each product listed; do not combine product lines. Include all products of this establishment which were produced or shipped during 1958. Include products shipped on consignment, whether or not sold at the end of 1958. Include products transferred to other establishments of your company (such as to your natural gas liquids plants, pipelines, petroleum refineries, other manufacturing establishments, or separate sales branches.) Report the entire output of wells operated by you and reported in Item 20, including royalty interests and subsidy payments.					
	7 Line No.	7-1X Census product code B-1	7-2 Unit of measure B-2	7-3 Quantity D	7-4 Total value at wells (Thousands of dollars) E	
	1	13120 01	4	Thousands of barrels	\$	
	2	13120 03	0	Thousands of barrels		
	Total (sum of lines 1 and 2; should be the same as Item 6a)					\$
a. Products of this establishment	Crude petroleum (report volumes corrected to 60° F.)	Shipped	Used in lease operations	For power or heat		



For other purposes, including losses		3	13120 05	6	Thousands of barrels	
<b>Field condensate and drips shipped</b>	<b>Natural gas</b> (adjust all volumes to a pressure base of 14.73 pounds absolute at 60° F.)	4	13120 07	2	Thousands of barrels	
	Gross production	5	13130 01	5	Million cu. ft.	
	Gas from oil wells (casinghead)	6	13130 03	1	Million cu. ft.	
	Gas from gas wells	7	13130 09	9	Million cu. ft.	
	Gross production (Sum of lines 5 and 6)					
	Gross disposition					
	Shipped					
<b>b. Services performed for others</b>	To distributors and transmission companies and net deliveries to natural gas liquids plants (In value include the producer's realization from all products contained in the gas delivered to natural gas liquids plants. Estimate if necessary.)	8	13130 12	9	Million cu. ft.	
	To consumers (domestic, commercial, and industrial, including deliveries to own refineries)	9	13130 22	0	Million cu. ft.	
	Used in lease operations (excluding natural gas reported in Item 16, line 2, and Item 17, line 1)	10	13130 32	1	Million cu. ft.	
	For power or heat	11	13130 42	2	Million cu. ft.	
	For gas lift (net)					
	Returned to underground formations for repressuring, pressure maintenance, and cycling (excluding natural gas reported in Item 17, line 1)	12	13130 52	3	Million cu. ft.	
	Net change in underground storage	13	13130 62	4	Million cu. ft.	
	Vented to air, burned in flares, and other losses	14	13130 72	5	Million cu. ft.	
	Gross disposition (sum of lines 8-14; should be the same as line 7 above)	15	13130 82	6	Million cu. ft.	
	Other products shipped	16				
	(Specify kind and unit of measure)	17				
	<b>b. Services performed for others</b>	Drilling oil, gas, dry, or service wells (Enter number and kinds of wells drilled, total footage drilled, and total cost of drilling these wells in the "Remarks" section of this form)	18	13818 01	8	
		Drilling in, spudding in, tailing in, and reworking wells	19	13818 03	4	
		Pumping wells but not operating leases	20	13848 17	0	
		Other work (Specify)	21			
<b>c. Total</b> —(Sum of lines 1-21)		22	77000 00	8		

(Please complete form and sign certification on reverse side)

## MC-13A Crude Petroleum and Natural Gas—Continued

Page 4

ITEM 19 COUNTY DATA		List below the counties in the State covered by this report in which you operated oil or gas field properties during 1958. Total figure in column (C) should be the same as Item 18, line 1, column (D). Total figure in column (D) should equal sum of figures in Item 18, lines 8 and 9, column (D). Total figure in column (F) should equal the sum of the figures in Items 4a and 4g.					
County (or parish) and offshore locations		8-1	8-2	8-3X	8-5		
A		B	C	D	F		
Code							
Crude petroleum shipped in 1958 (Thousands of barrels)							
Natural gas shipped in 1958 (Million cu. ft.)							
Number of employees in pay period ended nearest March 15, 1958							
Offshore locations		8					
Total, all counties (or parishes) and offshore locations		8					
Report below the number of oil and gas wells (including condensate wells) operated by you in the State (or contiguous offshore territories) designated in Item 1. If a well produced both oil and gas, classify it according to its more valuable total product; do not report it as both an oil and gas well. Service wells (gas injection, water injection, brine disposal, etc.) should be reported on lines 5, 6, and 15. On line 11, report oil and gas wells converted to service wells.							
ITEM 20 NUMBER OF WELLS OPERATED							
Item		8-1	8-2	8-3	8-4	8-5	
A		Line	Code	Number of wells		Number of wells	
			B	Total	C	Oil	D
							E
Producing during December 1957		1	921				
Shut-in or idle during all of December 1957		2	922				
Drilled and completed in 1958		3	923				
Producing wells		4	924				
Dry holes		5	925				
Service wells (exclude converted wells)		6	926				
Wells recompleted in 1958		7	927				
Purchased (or leased) in 1958		8	928				
Total (sum of lines 1, 2, 3, and 7)							
Producing during December 1958		9	931				
Shut-in or idle during all of December 1958		10	932				
Converted to service wells in 1958		11	933				
Abandoned in 1958 (exclude dry holes)		12	934				
Sold (or leased) in 1958		13	935				
Total (sum of lines 9-13; should be the same as line 8 of this item)		14					
Wells being used for service during December 1958		15	941				



ITEM 21 COST OF DRILLING AND EQUIPPING WELLS COM- PLETED IN 1958		REPORT ALL COST FIGURES IN THOUSANDS OF DOLLARS Report here the designated costs of drilling and equipping all wells reported under Item 20, lines 3, 4, and 5, including the cost of dry holes and service wells drilled during 1958. Report only the costs specified; do not include other costs such as taxes, interest on investment, etc.									
8		8-1	8-2		8-3	8-4		8-5	8-6	8-7	8-8
Kind of wells drilled		Line No.	Wells completed during 1958		Total footage drilled	Cost of drilling and equipping wells, EXCLUDING AMOUNTS PAID TO CONTRACTORS (Thousands of dollars)		Casing	Equipment for flowing or pumping and production derrick <sup>3</sup>	Total, excluding amounts paid to contractors (Sum of columns E, F, and G)	Total amounts paid or due contractors for drilling or equipping wells (Thousands of dollars)
A			Code	Number of wells		Cost of drilling <sup>1</sup>	Cost of well equipment <sup>2</sup>				
Drilled for you by own employees	Oil wells	1	951								
	Gas wells	2	952								
	Dry holes <sup>4</sup>	3	953								
	Service wells <sup>5</sup>	4	954								
Drilled on contract for you by others	Oil wells	5	955								
	Gas wells	6	956								
	Dry holes <sup>4</sup>	7	957								
	Service wells <sup>5</sup>	8	958								
Total (Sum of lines 1-8; col. (C) should be sum of Item 20, col. (C), lines 3-5)		9	950								
<sup>1</sup> Report cost of labor, supplies, water, fuel, and power used in such operations as erecting and dismantling drilling rig and derrick, drilling hole, running and cementing casing, and hauling materials; include machinery and tool charges or rentals, deduct the value of material salvaged after use. Do not include here cost of drilling derrick that was left over well for production after well completion. <sup>2</sup> Include cost of delivering and installing equipment, but do not duplicate costs reported under "Cost of drilling." <sup>3</sup> Deduct value of your equipment that was salvaged and was used again, but include cost of salvaging. <sup>4</sup> Include tubing, wellhead fittings, gas traps, flow tanks, etc., and drilling derrick retained over well after completion, or special-production derrick. <sup>5</sup> Include wells drilled and abandoned without commercial production during 1958. Exclude converted wells.											
Remarks											
ITEM 22		NAME AND ADDRESS OF PERSON WHO SHOULD BE CONTACTED IF QUESTIONS ARISE REGARDING THIS REPORT									
ITEM 23		TELEPHONE NO.									
CERTIFICATION		This report is substantially accurate and covers the period from _____ to _____									
		DATE _____ TITLE _____ SIGNATURE OF AUTHORIZED PERSON _____									

INST.  
MC-13A

# Department of Commerce

## Bureau of the Census

### 1958 CENSUS OF MINERAL INDUSTRIES

#### General Instructions for Preparing Reports on Forms MC-13A, MC-13D, and MC-13X

MC-13A—Crude Petroleum and Natural Gas

MC-13D—Oil and Gas Field Operations  
and

MC-13X—Offshore Oil and Gas Operations

The purpose of this pamphlet is to assist you in filling out the enclosed Census of Mineral Industries forms. Please read the instructions for each item in this pamphlet and on the report form before entering your figures. Note that all value figures are to be reported in thousands of dollars, all man-hours figures are to be reported in thousands of hours, all quantity of electric energy figures are to be reported in thousands of kilowatt-hours, all crude petroleum and field condensate figures are to be reported in thousands of barrels, and all natural gas figures are to be reported in millions of cubic feet.

#### INTRODUCTION

##### A. WHO SHOULD REPORT?

Every concern which operated oil or gas wells, or drilled oil or gas wells for its own account, during any part of the calendar year 1958 is required to submit a separate report on Form MC-13A or MC-13D for each State (including Alaska) in which it had such activities. Offshore operations in the contiguous territories should be included and also reported separately on Form MC-13X. The reports should be returned to the Census Office shown on the enclosed envelope within 30 days of their receipt.

The report should be prepared by the operator of the oil or gas field properties, whether he is the owner or is operating these properties under lease or contract. The report should be made on a gross basis for these properties and should not include data for properties in which the company only owns an interest but which were operated by others.

In general, separate reports should be prepared for the operations of parent companies and their subsidiaries.

##### B. WHAT IS A MINERAL ESTABLISHMENT?

An oil or gas field mineral establishment is defined, for Census purposes, as representing all oil and gas field properties in one State operated by the reporting company and oil and gas field services performed for others in that State. It does not include natural gas liquids plants, pipelines, natural gas distribution sys-

tems, petroleum refineries, bulk tank stations, or filling stations. In order to segregate such operations a limited amount of prorating or estimating may be necessary.

An establishment is not necessarily identical with the business concern or firm, which may consist of one or more establishments. It is also to be distinguished from organizational departments or other subdivisions within an establishment.

If you have not received a sufficient number of forms to cover all mineral establishments operated by your company during 1958, please write to the Bureau of the Census Operations Office, Jeffersonville, Indiana stating the number of establishments for which you did not receive forms and their type of activity. In corresponding for this, or any other reason, be sure to include in your letter the Census reference number which appears in the address box of the form sent you.

##### C. WHAT KIND OF ACTIVITIES SHOULD THE ESTABLISHMENT REPORTS COVER?

Each report on Form MC-13A or MC-13D should cover the activities in one State of concerns who operated wells, performed oil or gas field work for their own account, or performed oil or gas field work for others on a contract, fee, or other basis. Include in the report exploration for oil and gas, drilling and operation of wells, repressuring oil fields, separating and emulsion breaking at field

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT HOURS IN THOUSANDS



tanks, the operation of field dehydration and pressure maintenance plants, gathering lines, and field storage facilities. Do not include the operation of natural gas liquids plants, which should be reported on Form MC-13B, or the operation of petroleum refineries which should be reported on Form MC-29A. If your concern is engaged in other mining activities, such as mining clay, appropriate report forms should be obtained.

Each report should also include activities such as generating energy for oil and gas field use; maintenance of equipment; and receiving, shipping, storage, research, record keeping, health, safety, food service, and other services, when carried on primarily for oil and gas field operations. The report should exclude the operation of company stores, boarding houses, bunk houses, and recreational facilities. The report should also exclude sales branches, research laboratories, and general administrative offices, if they were operated as separate establishments.

**Offshore Operations.**--The report should include throughout data for offshore exploration, drilling, and production operations in territories contiguous to the State covered by the report, including areas under the jurisdiction of either the State or the Federal Government. However, a separate report is also required on Form MC-13X to provide data on the number of offshore wells, production from such wells, and on the cost of drilling and equipping such wells. For reporting purposes, an offshore well is one which is bottomed at, or produces from, a point which lies seaward from the normal or ordinary continental coast line. The term does not apply to wells drilled to and producing from points underlying inland waters.

#### D. WHAT PERIOD SHOULD EACH REPORT COVER?

Each report should cover the calendar year 1958. If your book records are not on a calendar-year basis, carefully prepared estimates for this period will be accepted. If, however, this procedure will cause you considerable additional costs, and the ending date of your fiscal year is not more than two months from December 31, 1958, you may report on a fiscal basis. As in the 1954 Census, however, all employment,

payroll, and man-hour figures should relate to the calendar year rather than the fiscal year.

The dates given in the certification should show the exact period for which this report is made. Thus, if your company began to operate or ceased to operate these properties within the year 1958, the dates given should show that only part of a year is covered by the report. Where properties were operated during part of the year under other management, complete the report only for that part of the year 1958 in which you operated the establishment.

#### E. HOW SHOULD MULTIPLE-ESTABLISHMENT COMPANIES DETERMINE TRANSFER VALUES FOR INDIVIDUAL PRODUCTS AND MATERIALS?

In order to provide adequate information for individual industries, States, and local areas, it is necessary that each reporting unit of a multiple-unit organization report as though it were operated as an independent establishment. For example, where a single company has oil and gas field operations, and also natural gas liquids plants or petroleum refineries, the transfer of oil or gas from one operation to the other should be reported at approximately commercial value and not at the cost of production. This requires that a company operating in two or more industries assign to each operation and to the individual products a reasonable proportion of the profits and the overhead costs. It is recognized that it will sometimes be necessary to make estimates.

Products reported at "transfer values" for the producing operation should be reported at the same values for the receiving plant as materials or fuels purchased or used, except for the addition of transportation or other direct handling charges.

These instructions apply to all establishments for which separate establishment reports are being submitted, such as natural gas liquids plants, petroleum refineries, bulk tank stations, and filling stations located in the oil or gas fields. For example, it may be necessary, in some cases, to estimate separate employment figures when the same employees perform services that are attributable to two or more installations or industries.

#### ITEMS ON THE REPORT FORM

**Items 1 and 2.**--See instructions on report form.

**Item 3.--Payrolls in 1958.**--Report the gross earnings paid in the calendar year 1958 to employees on the payroll of this establishment, including commissions, dismissal pay, all bonuses, vacation and sick-leave pay, and compensation in kind, such as board or housing; and prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. (You should follow the definition of salaries and wages that is used for calculating the withholding tax.) Include salaries of officers of this establishment, if a corporation. Exclude payments to proprietor or partners, if an unincorporated concern, and payments to

members of armed forces and pensioners carried on your active payroll.

**Item 4.--Number of Employees in 1958.**--Report all full-time and part-time employees at this establishment who worked or received pay for any part of the pay period (preferably one week) ended nearest the 15th of the months specified on the report form (March, May, August, and November for "production and development workers" and March only for "all other employees"). Include all persons on paid sick leave, paid holidays, and paid vacations during these pay periods, and officers, if a corporation. Exclude members of armed forces and pensioners carried on your active rolls. Exclude employees of contractors

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT HOURS IN THOUSANDS



or subcontractors who performed work for you. Exclude proprietors or partners, if an unincorporated concern; they should be reported in Item 5B. (You may follow the definition of employees specified by your State Employment Security Agency.)

If your company was also engaged in this State in natural gas liquids production, petroleum refining, other manufacturing, or wholesale or retail trade operations, for Census purposes, employees, such as medical staff and yardmen, who work in units that serve these establishments and also oil and gas fields should be distributed among the respective establishments. The earnings and man-hours of such employees should be likewise distributed.

**Items 4e and 4f.**--Add the four production and development worker employment figures on lines 4a-4d and enter total in line 4e. Divide the total entered on line 4e by four and enter the result on line 4f. In cases where the establishment did not operate in all four periods, the sum shown on line 4e should still be divided by four.

**Item 5A.**--Man-Hours of Production and Development Workers, by Department in 1958.--The man-hour figures are designed to measure over-all activity of the establishment during the year. The figures should represent all time worked or paid for, except time for paid vacations, holidays, or sick leave, when the employee was not at the operation. Include actual overtime hours, not straight-time equivalent hours. If an employee elected to work during the vacation period, report only actual hours worked by such employee.

The figures should account for all man-hours for the entire year for all full-time and part-time production and development workers reported in Item 4. Exclude hours worked by employees of contractors or subcontractors who performed work for you.

A man-hour is the work of one person for one hour. Report figures from actual records of man-hours wherever available. If no records of man-hours were kept, estimate man-hours from payroll or other records.

**Item 5Aa.**--Operating and Maintaining Wells should include all operation and maintenance activities for the production of oil and gas and transportation of oil from the well to the first lease tank and gas from the well to the first meter. For oil production, include field separation.

**Item 5Ab.**--Drilling wells and Rig Building.--Only direct drilling and rig building activities should be included in this item. Include drilling in, spudding in, tailing in, and reworking wells. Segregate, by estimate if necessary, and include in Item 5Ad "Other work," the man-hours for trucking on to location, and also for installing wellhead fittings and other work in connection with completion of wells.

**Item 5Ac.**--Exploration Work (except drilling wells) should include such activities as geophysical exploration, geologic leasing, and scouting. Shot-hole drilling and core drilling should be included here.

**Item 6.**--Cost of Supplies, Gas Purchased for Gas Lift, Purchased Fuels, Electric Energy, Contract Work, and Machinery in 1958.--Report total amounts for supplies, gas purchased for gas lift and repressuring, and purchased fuels actually used during 1958 by the establishment. (See also instructions for Items 6 and 17 on report forms.)

Include items consumed by the establishment during the year although purchased prior to 1958; physical goods; gas purchased for gas lift and repressuring (this should also be reported in Item 17); purchased supplies consumed for production, development, maintenance, and repair of plant and equipment, and in plant construction; supplies which you furnished without charge to contractors or subcontractors for use on the oil and gas field properties covered by this report; consumption of items received from other establishments of your company for which separate reports are being submitted.

Exclude items received during the year which were not consumed; services such as advertising, telephone, telegraph, cable, insurance, and research rendered by other establishments to this establishment, or services of engineering, management, marketing, legal, and other professional consultants, etc.; expenses such as depreciation charges against plant and equipment, rent and rental allowances, interest payments, royalties, and use of patent fees; wages of your employees engaged in maintenance and repair work (which should be reported in Item 3); oil and gas produced on these properties (which should be reported in Item 18).

The costs reported for supplies, gas for gas lift and repressuring, fuels, electric energy, and machinery received from other establishments of your company or from a central supplies depot (whether at the same or different physical locations) should approximate the commercial values of these items, plus transportation and other direct handling charges. Wherever possible, these figures should be checked with the values reported by the operation producing and transferring the goods and should exceed the shipment values reported for the producing operation only by the addition of transportation or other direct handling charges involved.

**Item 6a.**--Supplies Used.--The following list of examples of supplies will indicate the types of items which should be included. The list is shown only as an example. It should not be considered a complete list of the items which should be included.

Bolts, screws, and nuts	Pipe
Casing	Pumps
Cement	Rods and bars
Clay	Stationery, stamps, and office supplies
Drill bits and reamers	Sulfuric acid
First-aid and safety supplies	Tools, dies, jigs, and fixtures
Gears and pinions	Tubing
Hardware	Water purchased
Lubricating oils	Welding rods, electrodes, and acetylene
Lumber	Wire, cable, and chain

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT HOURS IN THOUSANDS



**Item 6b.—Products Bought and Resold Without Further Processing.**—(Not applicable to Form MC-13A) Report the cost of all products bought and resold in the same condition as when purchased. The resale value of such products should be reported in Item 18c. Exclude gas purchased for resale.

**Item 6c.—Purchased Fuels Used.**—Report the total amount actually paid or payable during 1958 for all purchased fuels used for heat, power, or generating electricity. Include fuel oil, natural and manufactured gas, gasoline, liquefied petroleum gas, coal, coke, wood, and all other purchased fuels, and purchased steam. Fuels used at these operations, but produced in another establishment of your company, such as petroleum refinery or natural gas liquids plant products, should be reported as fuels in Item 6c, and commercial values assigned to them.

**Item 6d.—Purchased Electric Energy.**—Report the total amount actually paid or payable for electric energy purchased during 1958 from other companies, or received from other establishments of your company, except energy purchased for resale. Exclude the value of electricity generated at this establishment.

**Item 6e.—Contract or Subcontract Work Done for You by Others.**—Report the total amounts paid for contract services, including payments for supplies and equipment furnished by the contractor incidental to this work.

If a part of the payment of a contractor was in oil or gas produced, an estimate of the value of the service should be reported.

**Item 6g.—Purchased Machinery Installed.**—Include all machinery, equipment, parts for renewals and repairs, and used plant which were purchased, or which were received from other establishments of your company. Include equipment which was installed at these operations as well as mobile equipment. Include such equipment as exploration and well survey machinery, drilling rigs, derricks, flow tanks, oil and gas separators, pumping equipment, Christmas trees, gauges, gas traps, control equipment, chokes, and trucks and cars for use on lease. Exclude such items as casing, tubing, and pipe which should be reported in Item 6a, "Supplies Used."

**Item 7.**—Not applicable to minerals establishments.

**Item 8.—Capital Expenditures for This Establishment in 1958.**—(See instructions on report form) If work was either begun prior to 1958 or not completed by the end of 1958, expenditures during 1958 may be computed as follows: cost of development and exploration work and additions completed during the year plus cost of work-in-progress at the end of the year minus cost of work-in-progress at the beginning of the year. Labor and other installation costs should be included.

**Item 8a.—Development and Exploration of Mineral Property.**—Report development and exploration outlays which were charged to a capital account. These should include charges to fixed assets for which depreciation or depletion accounts are ordinarily maintained for tax purposes. Include capitalized expendi-

tures for oil and gas field exploration, and for drilling oil, gas, dry, and service wells.

**Item 8b.—Other Construction.**—Include expenditures for new construction, major additions, and alterations (including improvements and capitalized repairs) for power plants, repair shops, offices, lease tanks, lines up to delivery end of lease tanks and first gas meter, and oil and gas field rail and other roads. Include, where capitalized, expenditures for construction by your own employees. Exclude construction of company houses, recreational facilities, and rail and other roads and pipe lines used only for transportation beyond the limits of properties covered by this report.

**Item 8c.—New Machinery and New Equipment.**—Report total expenditures at this establishment for all new machinery and equipment. Include new machinery and equipment purchased for replacement purposes, as well as for additions to capacity; and the value of new machinery and equipment transferred from other establishments of this company. Include the value of improvements and capitalized repairs to machinery and equipment, such as equipment installed after completion of wells. Include new drilling rigs and lease equipment, new casing and wellhead fittings, and also new motors, office machines and fixtures, furniture, cafeteria and change-room furnishings, automobiles, trucks, and other equipment.

**Item 8d.—Used Plant and Used Equipment Acquired From Others.**—Report total expenditures at this establishment for old or existing plant and for second-hand equipment acquired from others (including the United States Government).

**Item 9.—Quantity of Electric Energy Used in 1958.**—Report all quantities of electric energy in thousands of kilowatt hours.

**Item 9a.—Purchased Electric Energy.**—Enter the quantity of electric energy for which the cost was reported in Item 6d.

**Item 9b.—Generated Electric Energy.**—Enter the total quantity of electric energy generated at this establishment during 1958, including energy which was sold to other companies or transferred to other establishments of your company. Include energy generated at the drilling site, which was used for lighting and other purposes. (Estimate quantity if book records are not available.)

Electric energy for generating-station use, which should be excluded in Item 9b, is electric energy used for generating-station lighting, excitors, condenser pumps, boiler feed pumps, stokers, and other station auxiliaries.

**Item 9c.—Electric Energy Sold or Transferred to Other Establishments.**—Include only that electric energy which was generated at these operations and then sold to other companies or transferred to other establishments of your company.

**Items 10 and 11.**—Not applicable to mineral establishments.

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT HOURS IN THOUSANDS



Items 12 and 13.--See instructions on report form.

Items 14 and 15.--Not applicable to mineral establishments.

Item 16.--Purchased Fuels Used in 1958.--Report quantity of gas in millions of cubic feet (thousands of MCF). Include all fuels purchased. Also include fuels transferred from other establishments of your company, such as petroleum refineries or natural gas liquids plants, and assign commercial values to them. Exclude fuels produced and used at this establishment; these should be reported in Item 18, lines 2 and 10.

Item 17.--See instructions on report form. Report quantity of gas in millions of cubic feet (thousands of MCF).

Item 18.--Products and Services of This Establishment in 1958.--(See instructions on report form.) Note that all crude petroleum and field condensate figures are to be reported in thousands of barrels. For example, if the complete figure to be reported is 210,697 barrels, enter 211.

Note that all natural gas figures are to be reported in millions of cubic feet. For example, if the complete gas figure is 310,293 MCF, enter 310.

Line 4.--Field Condensate and Drips.--Include on this line only oils shipped as condensate or drips. Do not attempt to segregate this item if it is marketed from tanks in which it is mixed with crude petroleum.

Lines 5-15.--Natural Gas.--"Gross production," as well as "Gross disposition," of gas should include the natural gas liquids content of the gas and the quantity of gas, estimated (if not metered), which was wasted or flared. Include residue gas from gas lift in distributing the gas according to its use.

Lines 18-20.--Report only the receipts for the kinds of services specified for these lines. Also see instructions on form for line 18.

Line 21.--Under "Other Work" report separately amounts received or due for the following types of work performed for other establishments. (If more lines are needed please attach a separate sheet):

Geophysical exploration  
Other exploration  
Well surveying and well logging  
Building (erecting) repairing, or dismantling rigs and derricks  
Excavating slush pits or cellars  
Running, cutting, and pulling casing, tubes, or rods  
Cementing wells  
Perforating well casing  
Acidizing and other chemical treatment of wells  
Cleaning out, bailing out, or swabbing wells  
Installing production equipment, such as wellhead fittings, pumps, and engines  
Erecting, cleaning, repairing, or dismantling lease tanks  
Oil and gas field machine-shop work  
Hauling oil and gas field supplies and equipment  
Other work (specify kind)

Item 20.--Number of Wells Operated.--Classify "condensate" or "distillate" wells as oil wells if the value of all liquids produced is greater than the value of the gas produced. Otherwise classify them as gas wells.

Dry holes should be included on line 4 only. Column (C) should be the sum of columns (D) and (E), if shown, except on line 6 where column (C) may exceed this sum, since service wells are included in line 6.

Item 20, lines 3, 4, and 5.--The figures for the number of "Oil," "Gas," "Dry," and "Service" wells, respectively, should be the same as the sums of the figures for corresponding wells, "Drilled for you by own employees" and "Drilled on contract for you by others" in Item 21.

Item 20, lines 7 and 13.--Include on line 7 wells which you contracted in 1958 to operate and on line 13 wells for which such a contract was terminated in 1958.

Item 21.--Cost of Drilling and Equipping Wells Completed in 1958.--The purpose of this inquiry is to segregate the designated costs of wells drilled and/or equipped by you during 1958, and also to record the total amounts paid to contractors or subcontractors for wells drilled and/or equipped in 1958.

#### WELLS DRILLED WHICH YOU OPERATED (INCLUDING WELLS DRILLED FOR OWN ACCOUNT).

Report separately "Wells drilled for you by own employees" on lines 1-4 and "Wells drilled on contract for you by others" on lines 5-8.

Include the cost of wells drilled by you and abandoned before completion during 1958. Include the cost of wells completed in 1958 although begun in 1957. Exclude the cost of drilling wells that were still in process of drilling or completion at the end of 1958. Costs for wells reported in this item usually should differ from such costs reported in Item 8. Item 21 represents total costs for wells completed in 1958, irrespective of when started, whereas Item 8 includes only costs for work done in 1958, but covers costs for wells not yet completed at the end of 1958.

Amounts paid to contractors for drilling and completing wells "Drilled on contract for you by others" should be reported only in the last column (Col. I). If all the wells were drilled and entirely completed on contract, with the contractor supplying the casing and other equipment (as on so-called "turnkey" jobs), all figures reported should be in the last column (Col. I). If the amounts paid to contractors represented only the amounts paid for drilling wells on contract, and you supplied the casing or other well equipment, the cost of this equipment should be reported in the appropriate spaces under "Cost of well equipment." If part of the payment to contractors was in oil, estimate carefully the value of this oil and include it in the total amount paid to contractors. For wells "Drilled for you by own employees," if some of the work or equipment in connection with drilling or equipping wells was furnished by contractors, report

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT HOURS IN THOUSANDS



amounts paid contractors for this work or equipment in the last column (Col. I), and do not include it elsewhere.

Report only the tangible costs specified. Other costs such as taxes, interest or investment, overhead costs, etc., should not be included.

Under "Cost of drilling" report the cost of labor, supplies, water, fuel, and power used in such operations as the following: Moving on to location all equipment and supplies incidental to operations; excavating for derrick foundation; building derrick foundation; digging slush pit; erecting derrick and wiring same; building loading or pipe racks; laying fuel and water lines; rigging up; drilling hole; making straight-hole tests or surveys; coring; well logging and core analysis; testing formation; mud conditioning; reaming; running casing, screen, and liner; cleaning out; bailing; swabbing; fishing; repairing and maintaining rig or derrick; tearing down rig; dismantling derrick and racks; and moving equipment off location. Report the cost (including freight and express charges thereon) of all supplies used in the above operations, such as: Mud, weighting materials, and mud chemicals; lumber or timber for making forms, mud boxes, pipe racks, constructing derrick, etc.; cement, sand, and gravel; all rig-operating supplies such as oils, grease, packing, rope, fire-brick, etc.; all drilling bits, reamers, and core heads; hand tools; iron and steel for derrick and for blacksmithing; cordage and wire lines; and any additional supplies necessary for the operation of either rotary or cable tool outfit. Deduct the value of materials salvaged after use. Include depreciation or amortization charges for the use of drilling machinery and tools in accord with best local practice; if the machinery and tools were rented, report the rentals thereon. Do not include here the cost of equipment chargeable to the well which should be reported under "Cost of well equipment." Include the total cost of water if purchased, or cost of water well if drilled and chargeable to oil or gas well drilling operations. Include also all fuel or power used in connection with these operations. If some of the fuel or power was not purchased, include a carefully estimated value of such fuel or power used.

Under "Cost of well equipment" report the cost of all equipment chargeable to the wells reported in column (C) and necessary for production or capping. If any of the costs were in the form of payments to contractors, such payments should be segregated and reported in the last column only. Do not duplicate any costs reported under "Cost of drilling." Under "Cost of casing," include costs for transportation of the casing to the site of operations; for dry holes deduct the value of salvaged casing less the cost of salvaging. Under "Equipment for flowing or pumping and production derrick," include tubing, packers, flow

lines, flow tanks, and oil and gas separators; well-head fittings, such as Christmas tree and connections, tubing head, chokes, gauges, anchor clamps; and the cost of pumping derrick. If drilling derrick was left over well after completion and was used for production, exclude all costs of such derrick from "Cost of drilling" and report them only here.

#### WELLS DRILLED ON CONTRACT FOR OTHERS

On Form MC-13D, Oil and Gas Field Operations, report on lines 10-14 data for wells drilled and completed for others on a contract, fee, or other basis in 1958. On Form MC-13A, Crude Petroleum and Natural Gas, enter in the "Remarks" section of the form, page 2, data for wells drilled and completed for others on a contract, fee or other basis in 1958: the number of each kind of wells drilled (oil, gas, dry, and service wells), total footage drilled, and total cost of drilling the wells. Include the cost of wells drilled by you for oil or gas companies and abandoned before completion in 1958. Include the cost of wells completed in 1958 although begun in 1957. Exclude the cost of drilling wells that were still in process of drilling or completion at the end of 1958. If you reported receipts for drilling in Item 18, line 18, and completed no wells in 1958, enter that explanation in the "Remarks" section of the form. (Costs reported in this item represent work done for other companies. They should not be included in the costs reported in Item 8, which should represent only capital expenditures for your own account.)

On Form MC-13D, amounts paid by you to subcontractors for work on the wells drilled or completed by you for oil or gas companies should be reported only in the last column, (Col. I).

On Form MC-13D, under "Cost of drilling" and "Cost of well equipment" report the types of costs specified for these columns for "Wells drilled which you operated."

Report only the costs specified. Note that these do not include taxes, interest on investment, overhead costs, etc. Include only the part of costs of drilling and/or equipping wells which was for work or equipment furnished by you on contract for oil and gas companies. Exclude the costs for work or equipment furnished by oil or gas companies and not covered by the amounts received by you for contract work.

Item 22.--See instructions on report form.

Item 23.--Certification.--Enter the month and day of the beginning and end of year your report covers. If a calendar year, report: "From January 1 to December 31, 1958." If a fiscal year, specify which, such as: "From December 1, 1957, to November 30, 1958." If a part year report is submitted, specify the actual period covered, for example: "January 1 to August 15, 1958" or "June 1 to December 31, 1958."

12253--U.S. Dept. of Comm--DC--1958

REPORT ALL DOLLAR FIGURES, MAN-HOURS, AND KILOWATT HOURS IN THOUSANDS

GPO 687460

1958 CENSUS OF MINERAL INDUSTRIES  
OIL AND GAS FIELD SERVICES

0	CENSUS USE ONLY	Location	F/O
0-1	0-2		

PLEASE READ ENCLOSED INSTRUCTIONS BEFORE COMPLETING REPORT.

Please complete and return this form in the return envelope to the Bureau of the Census, Jeffersonville, Indiana, **not later than 30 days** after you receive it. Only one report is required for your oil and gas field work for others in all States (including offshore operations). If you performed such work for your own account or operated leases, report data for such activity in Item 18d on this form.

ITEM 1A NAME AND ADDRESS OF CONTRACTING COMPANY	NAME AND ADDRESS
ITEM 1B LOCATION OF OPERATIONS	LIST STATES, IN ORDER OF IMPORTANCE, IN WHICH YOU PERFORMED OIL AND GAS FIELD SERVICES FOR OTHERS DURING 1958.
ITEM 1C NATURE OF ACTIVITY	DESCRIBE BRIEFLY THE KIND OF ACTIVITY COVERED BY THIS REPORT.

**CONFIDENTIAL.**—This report is required by Act of Congress, approved August 31, 1954 (13 U.S.C. 131 and 224). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation, or regulation.

In correspondence pertaining to this report  
please refer to this file number

MC—13C (1303)

(Please correct any errors in name and address)

ITEM 2A FEDERAL SOCIAL SECURITY EMPLOYER IDENTIFICATION NUMBER	Federal Social Security Employer Identification Number of this establishment (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)  (Enter all 9 digits)
ITEM 2B COMPANY ORGANIZATION OF OPERATING COMPANY	(a) Does this company operate more than one place of business under the same Employer Identification Number (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)? Yes <input type="checkbox"/> No <input type="checkbox"/> (b) Does this company own or control another company? Yes <input type="checkbox"/> No <input type="checkbox"/> (c) Is this company owned or controlled by another company? If "Yes" is checked in Part (c), give name and address of owning or controlling company. Yes <input type="checkbox"/> No <input type="checkbox"/>
ITEM 2C FORM OF OWNERSHIP OF OPERATING COMPANY	(Check one) (1) <input type="checkbox"/> Individual proprietor (2) <input type="checkbox"/> Partnership (3) <input type="checkbox"/> Corporation (Do not include any form of coop. ass'n) (4) <input type="checkbox"/> Cooperative association (corporate or noncorporate) (5) <input type="checkbox"/> Other (Specify) _____

DEFINITIONS FOR ITEMS 3, 4, AND 5A

**Production and Development Workers.**—Workers up through the working foreman level (such as drillers) engaged in manual work, using tools, operating machines, and caring for wells; exploration work, storage, shipping, maintenance, repair, watchman services, auxiliary production for own use (e. g., power plant), record keeping, and other services closely associated with the operations covered by this report. **Exclude** supervisory employees above working foreman level, such as tool pushers. **Exclude** employees of subcontractors.  
**All Other Employees.**—Nonproduction personnel above working foreman level, engaged in supervision, sales, highway trucking, advertising, credit, collection, clerical and routine office functions, executive, purchasing, finance; and in legal, personnel (including cafeteria, medical, etc.), professional (engineers, geologists, etc.), and technical work. **Include** force-account construction employees on your payroll engaged in construction of major additions or alterations to your own facilities who are utilized as a separate work force. Workers engaged in regular maintenance and repair operations should be included with production and development workers. **Include** officers at this establishment, if a corporation, but **exclude** proprietor or partners, if unincorporated. **Exclude** employees of subcontractors.



ITEM 3 PAYROLLS IN 1958 (\$000)	Enter the total of wages, salaries, bonuses, commissions, and other remunerations in the entire year, before deductions, paid to—	1958		Key
		Thousands of dollars		
		\$		0-5
		\$		0-6
		\$		0-7
			Number of employees	
ITEM 4 NUMBER OF EMPLOYEES IN 1958	Production and development workers during pay period ended nearest 15th of— (See definitions above Item 3)			0-8
				0-9
				0-10
				1
				1-1
				1-2
				1-3
				1-4
				1-5★
ITEM 5A MAN-HOURS OF PRODUCTION AND DEVELOPMENT WORKERS, BY KIND OF WORK, IN 1958 (Thousands)	Enter the total number of man-hours of production and development workers (as defined above) for each kind of work. Do not include hours for paid vacations, holidays, or sick leave or hours worked by employees of subcontractors.		Thousands of hours	
		8	8-1	8-2
				8-3
				8-4
				8-5
				8-6X
ITEM 5B PROPRIETORS AND FIRM MEMBERS IN 1958	a. Total number of proprietors and firm members (not applicable to corporations)		Number of persons	8-8
	b. Number of proprietors and firm members (included in a above) regularly performing production or development work at these operations			8-9★

(OVER)

## FORM MC-13C—Oil and Gas Field Services—Continued

Page 2

ITEM 6 COST OF PURCHASED SUPPLIES USED, PRODUCTS FOR RESALE, PURCHASED FUELS, ELECTRIC ENERGY, SUBCONTRACT WORK, AND MACHINERY IN 1958 (\$000)		Item	1958 Thousands of dollars		KEY
		a. Purchased supplies used	\$		2
		b. Products bought and resold without further processing	\$		2-1
		c. Purchased fuels used (See instructions in Item 16.)	\$		2-2
		d. Purchased electric energy (exclude energy purchased for resale)	\$		2-3
		e. Subcontract work done for you by others	\$		2-4
		f. <b>Total cost</b> , excluding purchased machinery (Sum of a through e)	\$		2-5
		g. Purchased machinery installed (include all new and used machinery, equipment, parts, and used plant not included above)	\$		2-6
			\$		2-7★

ITEM 7 (Not applicable to this form)		Type of capital expenditure (Excluding land)	Expenditures (Thousands of dollars)
ITEM 8 CAPITAL EXPENDITURES FOR THIS COMPANY IN 1958 (Exclude expenditures for land) (\$000)		a. New structures and additions to fixed plant (including capitalized repairs and improvements)	\$
		b. New machinery and new equipment (including capitalized repairs and improvements)	\$
		c. Used plant and used equipment acquired from others	\$
		d. <b>Total capital expenditures</b> (Sum of a, b, and c)	\$
			(Thousands of KWH)
ITEM 9 QUANTITY OF ELECTRIC ENERGY USED IN 1958 (Thousands of kilowatt hours)		a. Purchased electric energy (for which cost is reported in Item 6d)	
		b. Generated electric energy (Gross less generating-station use)	
		c. Electric energy sold or transferred to other establishments.	

ITEMS 10, 11 (Not applicable to this form)		ITEM 12 STATUS OF OWNERSHIP OR OPERATION OF THIS COMPANY SINCE DECEMBER 31, 1957	
		Change in ownership or operation of this company since December 31, 1957 (Check one) (1)* <input type="checkbox"/> Purchased by you on _____ (date) (2)* <input type="checkbox"/> Sold by you on _____ (date) (3)* <input type="checkbox"/> Reorganized (partnership change or change in corporate status)	
		Give name and address of former owner (if box (1) is checked) or purchaser (if box (2) is checked): _____ _____	



ITEM 13 CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT	(4) <input type="checkbox"/> Went out of business (no new owner) on _____ (date) (5) <input type="checkbox"/> No change	*Make certain that you have entered in Item 2A the current (or most recent) Federal Social Security Employer Identification Number of this establishment.			
	Please Note — 1. The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. 2. Incomplete answers will result in correspondence which is both costly and time consuming. Be sure to <b>complete every item</b> . Enter "None" in all items where appropriate. 3. Reasonably accurate estimates are acceptable. The statistical purposes of the Census will not be affected by such estimates. Preparing estimates at the time the report is completed will avoid the necessity for further correspondence on blank items. 4. All money figures should be reported in thousands of dollars. For example, if the complete dollar figure to be reported is \$1,367,700 enter \$1,368. All quantity figures should be reported in the unit specified in the item.		5. Failure to file reports within the requested period results in costly delays and follow-up letters. Please submit your reports as quickly as possible. 6. It is very difficult and costly to process your correspondence if you do not show your file number (see address box) on all correspondence concerning your Census reports. 7. The following inquiry is provided to call your attention to possible oversights and errors in the data entered on your form. To save you future correspondence about these problems, please make the checks indicated below before returning your report: a. Review the report carefully to see that no items are omitted. b. Calculate the four "reasonableness" checks described below, enter the figures for each, and analyze your results. c. Correct your report for any errors you find; explain unusual figures in the "Remarks" section below.	1958	
REMARKS	Calculation required for each check	1958			
			"Reasonableness" checks	Item 3a (Production worker wages) ÷ Item 5Ae (Total man-hours)	\$
			1. Average hourly wages per worker	Item 5Ae (Total man-hours) × 1,000 ÷ Item 4f (Average production workers)	c
			2. Hours worked per year per worker	Item 3c (Total payrolls) ÷ Item 18, Total, Col. (E) (Receipts for services)	c
			3. Salaries and wages per dollar of receipts for services	Item 6f (Supplies, etc., cost) ÷ Item 18, Total, Col. (E) (Receipts for services)	c
ITEM 14 ITEM 15	(Not applicable to this form)	(Please continue on next page.)			

Form MC-13C		ESTABLISHMENT IDENTIFICATION NO.	
1958 CENSUS OF MINERAL INDUSTRIES OIL AND GAS FIELD SERVICES—Continued		CENSUS USE ONLY	NAME OF ESTABLISHMENT (Same as address box)
ITEM 16 PURCHASED FUELS USED IN 1958	Report quantities in units specified; report <b>total</b> delivered cost in thousands of dollars. Do not report cost per unit. <b>Exclude</b> fuels furnished without charge by the oil or gas companies for whom you performed work.		
Line No.	Item A	Code 5-1	Unit of measure B
		Quantity C	Cost (Thousands of dollars) D
1	Fuel oil, all types	30	Barrel (42 gals.)
2	Gas: natural, manufactured, and mixed	40	Million cu. ft.
3	Other fuels: Gasoline, liquefied petroleum gas, wood, coal, coke, and other	50	
4	<b>Total</b> (Sum of lines 1-3; should be same as Item 6c)		
ITEM 17	(Not applicable to this form)		
ITEM 18 SERVICES OF THIS ESTABLISH- MENT IN 1958	<b>REPORT ALL VALUE FIGURES IN THOUSANDS OF DOLLARS</b>		
a. Work performed	Item A	Line No. 7	7-1XX Census product code B
			Amount received or due (Thousands of dollars) E
Work performed for companies operating oil or gas wells (report total amounts received or due you for oil and gas field contract work done during 1958. Do not include amounts received for work done prior to 1958.)			
Geophysical exploration		1	13828 01 9 \$
Other exploration		2	13828 03 5 \$
Well surveying and well logging		3	13838 01 0 \$
Drilling oil, gas, dry, or service wells		4	13818 01 8 \$
Drilling in, spudding in, tailing in, and reworking wells		5	13818 03 4 \$
Building (erecting), repairing, or dismantling rigs and derricks		6	13848 01 1 \$
Excavating slush pits or cellars		7	13848 03 7 \$



Running, cutting, and pulling casing, tubes, or rods.....	8	13848	05	3	\$
Cementing wells.....	9	13838	03	6	\$
Perforating well casing.....	10	13848	07	9	\$
Acidizing and other chemical treatment of wells.....	11	13848	09	5	\$
Cleaning out, bailing out, or swabbing wells.....	12	13848	11	2	\$
Installing production equipment, such as wellhead fittings, pumps, and engines.....	13	13848	13	8	\$
Erecting, cleaning, repairing, or dismantling lease tanks.....	14	13848	15	4	\$
Oil and gas field machine-shop work.....	15	35993	00	9	\$
Hauling oil and gas field supplies and equipment.....	16	95000	03	1	\$
Other work (Specify kind).....	17				\$
<b>b. Resales</b>					
Sales of products purchased and resold without further processing.....	18	99989	00	8	\$
<b>c. Total— (Sum of lines 1–18)</b>	19	77000	00	8	\$
<b>d. Leases operated</b>					
Did you operate oil and gas field leases for your own account or for others? (Check one) <input type="checkbox"/> Yes <input type="checkbox"/> No					
If answer is "Yes," please report:					
1. Wells operated by you in 1958 and production, by State and county:					
State	County	Number of wells	Bbls. of oil	MCF of gas	
2. Wells drilled in 1958 on leases which you operated:					
(a) Number of wells drilled		Oil	Gas	Dry	
(b) Total footage drilled					
(c) Total cost of drilling and equipping (Thousands of dollars)		\$			

(Please complete form and sign certification on reverse side)

**REPORT ALL VALUE FIGURES IN THOUSANDS OF DOLLARS**

List below the States and counties in which you performed oil or gas field contract work during 1958 (show separately figures for offshore operations for each State). Total figure in Col. (E) should equal the sum of figures in

Item 18a, lines 1-17. Total figure in Col. (F) should equal the sum of the figures in Items 4a and 4g.

[illegible]

**ITEM 20** (Not applicable to this form)



## ITEM 21

COST OF  
DRILLING AND  
EQUIPPING  
WELLS COM-  
PLETED BY  
YOU ON  
CONTRACT  
FOR OTHERS  
IN 1958

## REPORT ALL COST FIGURES IN THOUSANDS OF DOLLARS

Report here the designated costs of drilling and equipping all wells drilled by you on contract for others. Report only the costs specified; do not include other costs such as taxes, interest on investment, etc. Do not report

the cost of wells drilled for your own account and not on contract for others. Do not include costs borne directly by oil or gas companies and not covered by amounts received by you for contract work.

Line No.	Kind of wells drilled on contract	Code	8-2		8-3	8-4	8-5	8-6	8-7	8-E		
			Wells completed during 1958									
			Number of wells	Total footage drilled								
											Costs, excluding amounts paid subcontractors (Thousands of dollars)	
				Cost of drilling <sup>1</sup>		Cost of well equipment <sup>2</sup>		TOTAL, excluding amount paid subcontractors (Sum of columns E, F, and G)		Total amounts paid or due subcontractors for drilling or equipping wells (Thousands of dollars)		
						Casing		Equipment for flowing or pumping and production derrick <sup>3</sup>			H	
1	Oil wells	971				\$	\$	\$	\$	\$	\$	
2	Gas wells	972				\$	\$	\$	\$	\$	\$	
3	Dry holes <sup>4</sup>	973				\$	\$	\$	\$	\$	\$	
4	Service wells <sup>5</sup>	974				\$	\$	\$	\$	\$	\$	
5	Total (Sum of lines 1-4)	970				\$	\$	\$	\$	\$	\$	

<sup>1</sup> Report cost of labor, supplies, water, fuel, and power used in such operations as erecting and dismantling drilling rig and derrick, drilling hole, running and cementing casing, and hauling materials; include machinery and tool charges or rentals, deduct the value of material salvaged after use. Do not include here cost of drilling derrick that was left over well for production after well completion.

<sup>3</sup> Include tubing, wellhead fittings, gas traps, flow tanks, etc., and drilling derrick retained over well after completion, or special-production derrick.

<sup>4</sup> Include wells drilled and abandoned without commercial production during 1958.

<sup>5</sup> Include gas-injection, water-injection, and brine-disposal wells. Exclude converted wells "Cost of drilling." Deduct value of your equipment that was salvaged and used again, but include cost of salvaging.

## Remarks

## ITEM 22

NAME AND ADDRESS OF PERSON WHO SHOULD BE CONTACTED IF QUESTIONS ARISE REGARDING THIS REPORT

TELEPHONE NO.

## ITEM 23

## CERTIFICATION

This report is substantially accurate and covers the period from \_\_\_\_\_ to \_\_\_\_\_

DATE

TITLE

SIGNATURE OF AUTHORIZED PERSON

<b>ORIGINAL</b> Form MC-14A U. S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS		<b>1958 CENSUS OF MINERAL INDUSTRIES</b> <b>STONE</b>		<b>CONFIDENTIAL.</b> —This report is required by Act of Congress, approved August 31, 1954 (13 U.S.C. 131 and 224). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation, or regulation.	
In correspondence pertaining to this report please refer to this file number <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 5px auto; width: 100px;">MC-14A (1401)</div>		(Please correct any errors in name and address)			
<b>ITEM 1A</b> NAME OF ESTABLISHMENT (In answering Item 1B, parts (1) through (5) below, be sure your answers relate to the ACTUAL PHYSICAL LOCATION of your establishment, which may be different from its mailing address.)		<b>ITEM 2A</b> FEDERAL SOCIAL SECURITY EMPLOYER IDENTIFICATION NUMBER		Federal Social Security Employer Identification Number of this establishment (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)	
<b>ITEM 1B</b> LOCATION OF ESTABLISHMENT 1. STATE _____ 2. COUNTY _____ 3. Is this establishment within the legal boundary of a municipality? Yes <input type="checkbox"/> No <input type="checkbox"/> If "Yes," (a) Enter name of the municipality. (Enter name only if establishment is within legal boundary) _____ (b) Type of municipality. (Check applicable box) <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Borough <input type="checkbox"/> Other (Specify) _____		<b>ITEM 2B</b> COMPANY ORGANIZATION OF OPERATING COMPANY (a) Does this company operate more than one place of business under the same Employer Identification Number (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)? Yes <input type="checkbox"/> No <input type="checkbox"/> (b) Does this company own or control another company? Yes <input type="checkbox"/> No <input type="checkbox"/> (c) Is this company owned or controlled by another company? If "Yes" is checked in Part (c), give name and address of owning or controlling company.		(Enter all 9 digits)	
<b>ITEM 1C</b> STREET AND NUMBER AT ESTABLISHMENT LOCATION (If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e. g., Rt. 25, 3 miles South of Charlottesville.)		<b>ITEM 2C</b> FORM OF OWNERSHIP OF OPERATING COMPANY (Check one) (1) <input type="checkbox"/> Individual proprietor (2) <input type="checkbox"/> Partnership (3) <input type="checkbox"/> Corporation (Do not include any form of coop. ass'n) (4) <input type="checkbox"/> Cooperative association (corporate or noncorporate) (5) <input type="checkbox"/> Other (Specify) _____		(a) Does this company operate more than one place of business under the same Employer Identification Number (Item 10 of Employer's Quarterly Tax Report, Treasury Form 941)? Yes <input type="checkbox"/> No <input type="checkbox"/> (b) Does this company own or control another company? Yes <input type="checkbox"/> No <input type="checkbox"/> (c) Is this company owned or controlled by another company? If "Yes" is checked in Part (c), give name and address of owning or controlling company.	
For establishments in New England, New Jersey, and Pennsylvania 5. Is this establishment within a town or township? Yes <input type="checkbox"/> No <input type="checkbox"/> IF "YES," ENTER NAME OF TOWN OR TOWNSHIP _____		<b>DEFINITIONS FOR ITEMS 3, 4, AND 5A</b> above working foreman level, sales, highway trucking (by employees not entering mines), advertising, credit, collection, clerical and routine office functions, executive, purchasing, finance; and in legal, personnel (including cafeteria, medical, etc.), professional (engineers, geologists, etc.), and technical work. <b>Include</b> force-account construction employees on your payroll engaged in construction of major additions or alterations to the plant who are utilized as a separate work force. Workers engaged in regular maintenance and repair operations should be included with production and development workers. <b>Include</b> officers at this establishment, if a corporation, but <b>exclude</b> proprietor or partners, if unincorporated. <b>Exclude</b> employees of contractors.			



ITEM 3 PAYROLLS IN 1958 (\$000)	Enter the total of wages, salaries, bonuses, commissions, and other remunerations in the entire year, before deductions, paid to—	1958		KEY
		Thousands of dollars		
ITEM 4 NUMBER OF EMPLOYEES IN 1958	<p><b>Production and development workers</b></p> <p>Enter the total number of man-hours of production and development workers during pay period ended nearest 15th of— (See definitions above Item 3)</p> <p><b>All other employees</b> during pay period ended nearest March 15 — (See definitions above Item 3)</p>	a. Production and development workers	\$	0-5
		b. All other employees	\$	0-6
		c. Total payrolls (Sum of a and b)	\$	0-7
		d. March 1958	Number of employees	0-8
		e. May 1958		0-9
ITEM 5A MAN-HOURS OF PRODUCTION AND DEVELOPMENT WORKERS, BY DEPARTMENT, IN 1958 (Thousands)	<p>Enter the total number of man-hours of production and development workers (as defined above) for each department. Do not include hours for paid vacations, holidays, or sick leave.</p>	f. August 1958		0-10
		g. November 1958		1
		h. Sum of lines a, b, c, and d		1-1
		i. Average number (Divide sum on line e by 4)		1-2
		j. March 1958		1-3
		k. Total (Sum of f and g)		1-4
		l. At mine or quarry	Thousands of hours	1-5★
		m. (1) Underground (mining and development)		2
		n. (2) Open quarry (mining and stripping)		3
		o. (3) Surface (including mine shops and yards)		4
ITEM 5B PROPRIETORS AND FIRM MEMBERS IN 1958	<p>a. Total number of proprietors and firm members (not applicable to corporations)</p> <p>b. Number of proprietors and firm members (included in a. above) regularly performing production or development work at this establishment</p>	p. At mill or crushing plant (including auxiliary works for this mill or plant)		5
		q. Total production and development worker man-hours (Sum of a and b)		6
		r. Man-hours included above which were spent on development and exploration work <sup>1</sup>		7
		s. Number of persons		8
		t. Total number of proprietors and firm members (included in a. above) regularly performing production or development work at this establishment		9★

<sup>1</sup> Report total man-hours in 1958 devoted to development and exploration work charged to capital or depletion accounts. Include shaft sinking, exploration drilling, and overburden stripping charged to such accounts. The cost of such work usually should be included in Item 8a.

(OVER)

## FORM MC-14A—Stone—Continued

ITEM 6		ITEM 7		ITEM 8		ITEM 9		ITEMS 10, 11		ITEM 12	
COST OF SUPPLIES, MINERALS RECEIVED FOR PREPARATION, PRODUCTS FOR RESALE, PURCHASED FUELS, ELECTRIC ENERGY, CONTRACT WORK, AND MACHINERY IN 1958 (\$000)		(Not applicable to this form)		CAPITAL EXPENDITURES FOR THIS ESTABLISHMENT IN 1958 (Exclude expenditures for land and mineral rights) (\$000)		QUANTITY OF ELECTRIC ENERGY USED IN 1958 (Thousands of kilowatt hours)		(Not applicable to this form)		STATUS OF OWNERSHIP OR OPERATION OF ESTABLISHMENT SINCE DECEMBER 31, 1957	
Include all such items charged to both current and capital accounts. (Costs charged to capital accounts should also be included in Item 8.) Report the cost of all items actually used or processed in 1958, whether purchased, withdrawn from inventories, or received from other establishments of this company. If your records do not show actual amounts used or processed, this may be computed by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Purchase records instead of consumption records may be used for any major item, if purchases closely approximate consumption, and for all minor items. "Cost" refers to amounts actually paid or payable after discounts, and includes freight and other direct charges incurred in acquiring the items. For items transferred from other establishments of this company, report the approximate commercial value as received. Contract work should represent amounts paid or due contracting concerns for work done during 1958 in the operation or development of this establishment, such as pumping, tunneling, shaft sinking, stripping, boring test holes, shop work, repair work, and construction..				Expenditures refer to all costs actually incurred during 1958, whether on contract or by your own forces, which are chargeable to the fixed assets accounts of this establishment and which are of the type for which depreciation or depletion accounts are ordinarily maintained. Do not include the cost of maintenance and repairs charged as current operating expense. If, during 1958, you did not make any expenditure for this establishment of the kind described above, enter "None" on line e.		Report on line a, all electric energy purchased for light, heat, and power. Do not include electric energy purchased for resale. Report on line b, all electric energy generated at this establishment whether for use by this establishment or for sale. Report on line c, sales or transfers of electric energy generated at this establishment.				a. Change in ownership or operation of this establishment since December 31, 1957 (Check one) (1)* <input type="checkbox"/> Purchased or leased by you on _____ (date) (2)* <input type="checkbox"/> Sold or leased to another operator on _____ (date) (3)* <input type="checkbox"/> Reorganized (partnership change or change in corporate status)	
ITEM 6		ITEM 7		ITEM 8		ITEM 9		ITEMS 10, 11		ITEM 12	
COST OF SUPPLIES, MINERALS RECEIVED FOR PREPARATION, PRODUCTS FOR RESALE, PURCHASED FUELS, ELECTRIC ENERGY, CONTRACT WORK, AND MACHINERY IN 1958 (\$000)		(Not applicable to this form)		CAPITAL EXPENDITURES FOR THIS ESTABLISHMENT IN 1958 (Exclude expenditures for land and mineral rights) (\$000)		QUANTITY OF ELECTRIC ENERGY USED IN 1958 (Thousands of kilowatt hours)		(Not applicable to this form)		STATUS OF OWNERSHIP OR OPERATION OF ESTABLISHMENT SINCE DECEMBER 31, 1957	
Include all such items charged to both current and capital accounts. (Costs charged to capital accounts should also be included in Item 8.) Report the cost of all items actually used or processed in 1958, whether purchased, withdrawn from inventories, or received from other establishments of this company. If your records do not show actual amounts used or processed, this may be computed by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Purchase records instead of consumption records may be used for any major item, if purchases closely approximate consumption, and for all minor items. "Cost" refers to amounts actually paid or payable after discounts, and includes freight and other direct charges incurred in acquiring the items. For items transferred from other establishments of this company, report the approximate commercial value as received. Contract work should represent amounts paid or due contracting concerns for work done during 1958 in the operation or development of this establishment, such as pumping, tunneling, shaft sinking, stripping, boring test holes, shop work, repair work, and construction..				Expenditures refer to all costs actually incurred during 1958, whether on contract or by your own forces, which are chargeable to the fixed assets accounts of this establishment and which are of the type for which depreciation or depletion accounts are ordinarily maintained. Do not include the cost of maintenance and repairs charged as current operating expense. If, during 1958, you did not make any expenditure for this establishment of the kind described above, enter "None" on line e.		Report on line a, all electric energy purchased for light, heat, and power. Do not include electric energy purchased for resale. Report on line b, all electric energy generated at this establishment whether for use by this establishment or for sale. Report on line c, sales or transfers of electric energy generated at this establishment.				a. Change in ownership or operation of this establishment since December 31, 1957 (Check one) (1)* <input type="checkbox"/> Purchased or leased by you on _____ (date) (2)* <input type="checkbox"/> Sold or leased to another operator on _____ (date) (3)* <input type="checkbox"/> Reorganized (partnership change or change in corporate status)	
ITEM 6		ITEM 7		ITEM 8		ITEM 9		ITEMS 10, 11		ITEM 12	
COST OF SUPPLIES, MINERALS RECEIVED FOR PREPARATION, PRODUCTS FOR RESALE, PURCHASED FUELS, ELECTRIC ENERGY, CONTRACT WORK, AND MACHINERY IN 1958 (\$000)		(Not applicable to this form)		CAPITAL EXPENDITURES FOR THIS ESTABLISHMENT IN 1958 (Exclude expenditures for land and mineral rights) (\$000)		QUANTITY OF ELECTRIC ENERGY USED IN 1958 (Thousands of kilowatt hours)		(Not applicable to this form)		STATUS OF OWNERSHIP OR OPERATION OF ESTABLISHMENT SINCE DECEMBER 31, 1957	
Include all such items charged to both current and capital accounts. (Costs charged to capital accounts should also be included in Item 8.) Report the cost of all items actually used or processed in 1958, whether purchased, withdrawn from inventories, or received from other establishments of this company. If your records do not show actual amounts used or processed, this may be computed by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Purchase records instead of consumption records may be used for any major item, if purchases closely approximate consumption, and for all minor items. "Cost" refers to amounts actually paid or payable after discounts, and includes freight and other direct charges incurred in acquiring the items. For items transferred from other establishments of this company, report the approximate commercial value as received. Contract work should represent amounts paid or due contracting concerns for work done during 1958 in the operation or development of this establishment, such as pumping, tunneling, shaft sinking, stripping, boring test holes, shop work, repair work, and construction..				Expenditures refer to all costs actually incurred during 1958, whether on contract or by your own forces, which are chargeable to the fixed assets accounts of this establishment and which are of the type for which depreciation or depletion accounts are ordinarily maintained. Do not include the cost of maintenance and repairs charged as current operating expense. If, during 1958, you did not make any expenditure for this establishment of the kind described above, enter "None" on line e.		Report on line a, all electric energy purchased for light, heat, and power. Do not include electric energy purchased for resale. Report on line b, all electric energy generated at this establishment whether for use by this establishment or for sale. Report on line c, sales or transfers of electric energy generated at this establishment.				a. Change in ownership or operation of this establishment since December 31, 1957 (Check one) (1)* <input type="checkbox"/> Purchased or leased by you on _____ (date) (2)* <input type="checkbox"/> Sold or leased to another operator on _____ (date) (3)* <input type="checkbox"/> Reorganized (partnership change or change in corporate status)	

Give name and address of former owner or lessee (if box (1) is checked) or purchaser or lessee (if box (2) is checked):



(4) <input type="checkbox"/> Went out of business (no new owner) on _____ (date) (5) <input type="checkbox"/> No change	*Make certain that you have entered in Item 2A the current (or most recent) Federal Social Security Employer Identification Number of this establishment.  Development and exploration work only <input type="checkbox"/> Idle <input type="checkbox"/> Abandoned <input type="checkbox"/> Exhausted	b. Status of establishment if no minerals were produced during 1958 (Check one):  Please Note— 1. The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. 2. Incomplete answers will result in correspondence which is both costly and time consuming. Be sure to <b>complete every item</b> . Enter "None" in all items where appropriate. 3. Reasonably accurate estimates are acceptable. The statistical purposes of the Census will not be affected by such estimates. Preparing estimates at the time the report is completed will avoid the necessity for further correspondence on blank items. 4. All money figures should be reported in thousands of dollars. For example, if the complete dollar figure to be reported is \$1,367,700 enter \$1,368. All quantity figures should be reported in the unit specified in the item.
ITEM 13 CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT	5. Failure to file reports within the requested period results in costly delays and follow-up letters. Please submit your reports as quickly as possible. 6. It is very difficult and costly to process your correspondence if you do not show your file number (see address box) on all correspondence concerning your Census reports. 7. The following inquiry is provided to call your attention to possible oversights and errors in the data entered on your form. To save you future correspondence about these problems, please make the checks indicated below before returning your report: a. Review the report carefully to see that no items are omitted. b. Calculate the four "reasonableness" checks described below, entering the figures for each, and analyze your results. c. Correct your report for any errors you find; explain unusual figures in the "Remarks" section below.	
Calculation required for each check		
"Reasonableness" checks	1958	
1. Average hourly wages per worker	Item 3a (Production worker wages) ÷ Item 5Ac (Total man-hours) \$	
2. Hours worked per year per worker	Item 5Ac (Total man-hours) × 1,000 ÷ Item 4f (Average production workers)	
3. Salaries and wages per dollar of shipments	Item 3c (Total payrolls) ÷ Item 18, Total, Col. (E) (Value of shipments) ¢	
4. Supplies, etc., cost per dollar of shipments	Item 6f (Supplies, etc., cost) ÷ Item 18, Total, Col. (E) (Value of shipments) ¢	
REMARKS		
ITEM 14 ITEM 15	(Not applicable to this form)	

(Please continue on next page.)

Form MC-14A		CENSUS USE ONLY		ESTABLISHMENT IDENTIFICATION NO.	
1958 CENSUS OF MINERAL INDUSTRIES		NAME OF ESTABLISHMENT (Same as address box)			
STONE—Continued					
ITEM 16	FUELS USED IN 1958	Report quantities in units specified; report total delivered cost in thousands of dollars. Do not report cost per unit.			
Line No.	Item A	5	5-1	5-2	5-3
		Code	Unit of measure B	Quantity C	Cost (Thousands of dollars) D
1	Coal: bituminous, lignite, and anthracite	10	Short tons		\$
2	Fuel oil, all types	30	Bbls. (42 gals.)		\$
3	Gas: natural, manufactured, and mixed	40	Thousand cu. ft.		\$
4	Other fuels: Gasoline, liquefied petroleum gas, wood, coke, and other	50			\$
5	Total (Sum of lines 1 through 4; should be same as Item 6c)				\$
ITEM 17	SUPPLIES USED AND STONE FOR PREPARATION IN 1958	<p>REPORT ALL COST FIGURES IN THOUSANDS OF DOLLARS</p> <p><b>General.</b>—This inquiry calls for a breakdown of the supplies used and stone received for preparation at this establishment during 1958 as reported in Item 6a of this form. The total cost in Item 17 should agree with Item 6a.</p> <p><b>Cols. D and E—Consumption of Items Received From Other Establishments.</b>—Report the quantity (Col. D) and delivered cost (Col. E) for each of the purchased items actually consumed or put into production during the year, whether received from other companies, withdrawn from inventory, or received from other establishments of this company.</p> <p><b>Col. D—Quantity.</b>—Report the quantities actually used in short tons. If you do not have actual consumption records, but if purchases closely</p>			
	Item A	6-1	6-2	6-3	6-4
		Census material code B	Received from other establishments of this company, purchased from others, and stone received for preparation on a custom or toll basis	Delivered cost (Thousands of dollars) E	Stone from this mine or quarry (Short tons) F
		Line No.	Quantity (Short tons) D		
a. Stone for preparation (Estimate value of stone received for custom preparation.)	Rough blocks used to produce dressed stone	1 141191 9		\$	
	Broken stone received for crushing, screening, or washing	2 142191 2		\$	

approximate consumption, your purchase figures may be used in reporting the item.

**Col. E—Delivered Cost.**—Report amounts actually paid or payable after discounts, and include freight and direct charges incurred in acquiring the quantities of the listed items during 1958. For items transferred from other establishments of this company, estimate the commercial value of the item.

**Col. F—Stone from this Mine or Quarry.**—Do not include in this column the stone received from other establishments of your company. Such stone should be included in Columns D and E.



b. Supplies used	Supplies (such as explosives, steel mill shapes and forms, timber and lumber purchased, forgings and castings, drill bits, other tools and parts, lubricants, and water purchased)		3	970099 0		
c. Total—(Sum of lines 1–3; should be the same as Item 6a)						
ITEM 18 TYPE OF OPERATION AND PRODUCTS AND SERVICES OF THIS ESTAB- LISHMENT IN 1958	Mining methods (check one or more)	7	7-1	0	Preparation methods (check one or more)	Key Check
a. Type of Operation	Open quarry	7-2		1	No preparation	7-4xx
	Underground	7-3		1	Crushing, grinding, or pulverizing	7-7
	Other (specify)				Screening	7-8
					Washing	7-9
					Other (specify)	7-10

REPORT ALL VALUE FIGURES IN THOUSANDS OF DOLLARS

Report separately each product listed; do not combine product lines.

Include all products which were physically shipped from this establishment during 1958, including minerals withdrawn from stockpiles and stone quarried and used by your company at other establishments. Include products shipped on consignment, whether or not sold at the end of 1958.

Report total values f. o. b. this mine, quarry, or plant. Include in the selling value royalty, if any, but exclude transportation charges to the purchaser or user. Include minerals prepared from materials mined at this establishment, purchased, received from other mines of your company, or re-

ceived for preparation on a custom or toll basis. Estimates are acceptable wherever exact figures are not available.

The Bureau of Mines (U.S. Department of the Interior) collects detailed figures on the mineral products listed below. This item provides only summary figures which will serve to relate the statistics compiled from the Census of Mineral Industries to the statistics compiled from Bureau of Mines surveys. For comparable items the same data should be reported both to the Bureau of Mines and the Bureau of the Census.

Limestone (including dolomite, cement rock, marl, travertine, calcareous tufa)	Product A	Line No.	7-1x Census product code B-1	Unit of measure B-2	7-3 Shipments and interplant transfers Quantity D	7-4 Value f.o.b. quarry or plant (Thousands of dollars) E					
							Rough dimension stone	1	14121 01 8	Short tons	\$
							Dressed dimension stone	2	32813 01 8	Short tons	\$
Crushed or broken stone	3	14222 01 4	Short tons	\$							

(OVER)

Form MC-14A—Stone—Continued

Page 4

ITEM 18— Continued	Product A	Line No.	7-1x Census product code B-1	Unit of measure B-2	7-3 Shipments and interplant transfers		7-4 Value f.o.b. quarry or plant (Thousands of dollars) E
					Quantity D		
b. Products and Services—Continued	Granite (including gneiss, syenite, diorite)						
		4	14131 01 9	Short tons			\$
		5	32812 01 5	Short tons			\$
	Other stone (including slate, marble, trap rock, sandstone, and miscellaneous types of stone)	6	14232 01 5	Short tons			\$
		7	14191 01 5	Short tons			\$
		8	32814 00 8	Short tons			\$
All other products	Crushed or broken stone	9	14292 01 1	Short tons			\$
	Asphalt and tar paving mixtures and blocks	10	29510 51 9				\$
	Ready-mixed concrete	11	32730 11 9	Cubic yards			\$
	Other (specify kind and unit of measure)						
		12					\$
	Amount received or due for work or services performed for other establishments (such as hauling, stripping, pumping, and shop work—Exclude amounts received for dressing, milling, or crushing stone on a custom or toll basis)	13	14808 01 8				\$
	Sales of stone and other products purchased and resold without further processing	14	99989 00 8				\$
	Total (Sum of lines 1-14)	15	77000 00 8				\$



c. Receipts for Custom or Toll Work	Description	8-1 Code	8-2 Amount received or due (Thousands of dollars)
		Amount received or due for dressing, milling, or crushing stone on a custom or toll basis	911
ITEMS 19-21 (Not applicable to this form)			
Remarks			
ITEM 22	NAME AND ADDRESS OF PERSON WHO SHOULD BE CONTACTED IF QUESTIONS ARISE REGARDING THIS REPORT		TELEPHONE NO.
ITEM 23 CERTIFICATION	<p>This report is substantially accurate and covers the period from _____ to _____</p> <p>DATE _____ TITLE _____ SIGNATURE OF AUTHORIZED PERSON _____</p>		

PLANT IDENTIFICATION										CARD TYPE	FIELD 1	FIELD 2	FIELD 3	FIELD 4	FIELD 5	FIELD 6	FIELD 7	FIELD 8	FIELD 9	FIELD 10																																																											
0000000000										40	SERIAL NUMBER	LOCATION CODE	FORM NUMBER RECODE	INITIAL INDUSTRY CODE	TOTAL SALARIES AND WAGES (000)	ALL EMPLOYEES				000000																																																											
1111111111										41	COST OF MATERIALS, FUELS, ELECTRICITY, ETC.	RESALES WITHOUT FURTHER PROCESSING (000)	CONTRACT WORK BY OTHERS (000)	TOTAL (000)	11111111	11111111	111111	111111	PURCHASED MACHINERY (000)	CAPITAL EXPENDITURES (000)	111111																																																										
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6666666666										46	MATERIAL CODE	MATERIAL PURCHASED OR TRANSFERRED QUANTITY	QUANTITY PRODUCED AND CONSUMED	66666666	66666666	666666	666666	666666	666666	666666	666666																																																										
7777777777										47	PRODUCT CODE	QUANTITY OF PRODUCTION	QUANTITY	VALUE (000)	← MULTIPLE USE COLUMNS →				QUANTITY PRODUCED AND CONSUMED	← MULTIPLE USE COLUMNS →																																																											
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SHORT FORM CARD

D. F. CO. 1413

PLANT IDENTIFICATION										CARD TYPE	FIELD 1	FIELD 2	FIELD 3	FIELD 4	FIELD 5	FIELD 6	FIELD 7	FIELD 8	FIELD 9	FIELD 10																																																											
0000000000										30	SERIAL NUMBER	LOCATION CODE	FORM NUMBER RECODE	INITIAL INDUSTRY CODE	PRODUCTION & DEVELOPMENT WORKER WAGES (000)	OTHER EMPLOYEES SALARIES (000)	TOTAL SALARIES & WAGES (000)	NO. P.W. & D.W. NEAREST 15TH OF MONTH																																																													
1111111111										31	NO. OF PRODUCTION & D. WORKERS NEAREST 15TH OF MO. NOVEMBER 1958	SUM OF QUARTERS	AVERAGE	OTHER EMPLOYEES MARCH (NUMBER)	ALL EMPLOYEES AVERAGE (NUMBER)	11111111	111111	111111	111111	111111	111111	111111																																																									
2222222222										32	COST OF MATERIALS, FUELS, ELECTRIC, ENERGY CONTRACT WORK, ETC.	RESALES WITHOUT FURTHER PROCESSING (000)	FUELS PURCHASED & CONSUMED (000)	PURCHASED ELECTRIC ENERGY (000)	CONTRACT WORK BY OTHERS (000)	TOTAL (000)	COST OF PURCHASED MACHINERY (000)	EXPENDITURES FOR EXPLORATION AND DEVELOPMENT (000)	222222																																																												
3333333333										33	CAPITAL EXPENDITURES DURING YEAR	NEW STRUCTURES AND ADDITIONS (000)	NEW MACH. & EQUIPMENT (000)	USED PLANT & EQUIPMENT (000)	TOTAL (000)	PURCHASED (000-KWH)	GENERATED (000-KWH)	SOLD OR TRANSFERRED (000-KWH)	333333																																																												
4444444444										34	FUEL CODE	FUEL CONSUMED QUANTITY	COST (000)	555555	55555555	55555555	555555	555555	555555	555555	555555	555555	555555	555555	555555																																																						
5555555555										35	MATERIAL CODE	MATERIAL PURCHASED OR TRANSFERRED QUANTITY	COST (000)	666666	66666666	66666666	666666	666666	666666	666666	666666	666666	666666	666666																																																							
6666666666										36	PRODUCT CODE	QUANTITY OF PRODUCTION	QUANTITY	VALUE (000)	← MULTIPLE USE COLUMNS →				QUANTITY PRODUCED & CONSUMED	← MULTIPLE USE COLUMNS →																																																											
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LONG FORM CARD

D. F. CO. 1412



## Appendix C

### Provisions of Law Relating to Census of Mineral Industries

(From Title 13 United States Code)

SECTION 131. The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades, service establishments, and transportation (exclusive of means of transportation for which statistics are required by law to be filed with, and are compiled and published by, a designated regulatory body), in the year 1954 and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof: Provided, That the censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades and service establishments, directed to be taken in the year 1954 relating to the year 1953, shall be taken instead in the year 1955 relating to year 1954. The censuses provided for in this section shall include the United States and its Territories and such Possessions as the Secretary may determine.

SECTION 224. Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, whether such request be made by registered mail, by telegraph, by visiting representative, or by one or more of these methods, to answer completely and correctly to the best of his knowledge

all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule prepared and submitted to him under the authority of this title, shall be fined not more than \$500 or imprisoned not more than sixty days, or both; and if he willfully gives a false answer to any such question, he shall be fined not more than \$10,000 or imprisoned not more than one year, or both.

SECTION 9. (a) Neither the Secretary, nor any other officer or employee of the Department of Commerce or bureau or agency thereof, may . . .

(1) use the information furnished under the provisions of this title for any purpose other than the statistical purposes for which it is supplied; or

(2) make any publication whereby the data furnished by any particular establishment or individual under this title can be identified, or

(3) permit anyone other than the sworn officers and employees of the Department or bureau or agency thereof to examine the individual reports.

C-1











US Bur. of the Census.  
US census of mineral  
industries: 1958.

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